

Animas River Sampling Locations:

| Sampling Location | Location Name | Latitude | Longitude | Elevation (HAE) | Description: |
|-------------------|------------------------------|---------------|----------------|-----------------|--|
| CC04 | CC04 | 37 53 38.82 N | 107 38 15.42 W | 11313 | North Fork of Cement Creek just upstream of confluence with the 7-Level mine adit. Sample upstream of the road switchback and upstream of the 7-Level flow that comes down the hill. Site was called CCOPP02 by EPA during May, June, and July 2009 sampling events. |
| CC02D | Mogul Adit | 37 54 36.14 N | 107 38 17.26 W | 11376 | Mogul Mine adit. Collect sample downstream of the mine pool at the 3-inch Parshall Flume. |
| CC03C | Red and Bonita Adit | 37 53 50.16 N | 107 38 37.90 W | 10893 | Red and Bonita mine adit at the portal. Do not take flow measurements at this site. |
| CC19 | American Tunnel | 37 53 27.50 N | 107 38 54.39 W | 10540 | American Tunnel mine adit. Sample where flow comes out of the ground. |
| CC06 | Upper Gold King 7-Level Adit | 37 53 40.50 N | 107 38 18.09 W | 11386 | 7-Level mine adit upstream of the confluence with the North Fork of Cement Creek. Sample where flow comes out of the mine tunnel. |
| CC03D | CC03D | 37 53 48.46 N | 107 38 41.61 W | 10776 | Red and Bonita mine adit. Collect sample at culvert that goes under the road |

| Location Name | Season-B | May 2009 | June 2009 | July 2009 | Aug 2009 | Sep 2009 | Oct 2009 | Nov 2009 | Dec 2009 | Jan 2010 | Feb 2010 | Mar 2010 | Apr 2010 | May 2010 | Jun 2010 | Jul 2010 | Aug 2010 | Sep 2010 | Oct 2010 | Nov 2010 |
|---------------|----------|----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days |
| Delta-Br-Ash | 0201P | 06/23/09 | 06/17/09 | 07/15/09 | 08/12/09 | 09/19/09 | 10/16/09 | 11/23/09 | 12/20/09 | 01/27/10 | 02/24/10 | 03/21/10 | 04/18/10 | 05/25/10 | 06/22/10 | 07/29/10 | 08/26/10 | 09/23/10 | 10/20/10 | 11/27/10 |
| Delta-Br-Ash | 0202C | 06/23/09 | 06/17/09 | 07/15/09 | 08/12/09 | 09/19/09 | 10/16/09 | 11/23/09 | 12/20/09 | 01/27/10 | 02/24/10 | 03/21/10 | 04/18/10 | 05/25/10 | 06/22/10 | 07/29/10 | 08/26/10 | 09/23/10 | 10/20/10 | 11/27/10 |
| Delta-Br-Ash | 0203C | 06/23/09 | 06/17/09 | 07/15/09 | 08/12/09 | 09/19/09 | 10/16/09 | 11/23/09 | 12/20/09 | 01/27/10 | 02/24/10 | 03/21/10 | 04/18/10 | 05/25/10 | 06/22/10 | 07/29/10 | 08/26/10 | 09/23/10 | 10/20/10 | 11/27/10 |
| Delta-Br-Ash | 0204 | 06/23/09 | 06/17/09 | 07/15/09 | 08/12/09 | 09/19/09 | 10/16/09 | 11/23/09 | 12/20/09 | 01/27/10 | 02/24/10 | 03/21/10 | 04/18/10 | 05/25/10 | 06/22/10 | 07/29/10 | 08/26/10 | 09/23/10 | 10/20/10 | 11/27/10 |
| Total-Ash | 0200 | 06/23/09 | 06/17/09 | 07/15/09 | 08/12/09 | 09/19/09 | 10/16/09 | 11/23/09 | 12/20/09 | 01/27/10 | 02/24/10 | 03/21/10 | 04/18/10 | 05/25/10 | 06/22/10 | 07/29/10 | 08/26/10 | 09/23/10 | 10/20/10 | 11/27/10 |

Field Conductivity and pH

ANIMAS RIVER 2009 - 2011 DATA SUMMARY - Field Measurements

| Location Name | Station ID | May 2009 Flow cfs | June 2009 Flow cfs | July 2009 Flow cfs | Aug 2009 Flow cfs | Sept 2009 Flow cfs | Nov 2009 Flow cfs | Feb 2010 Flow cfs | March 2010 Flow cfs | April 2010 Flow cfs | June 2010 Flow cfs | July 2010 Flow cfs |
|------------------------|--------------|-------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|-------------------------|---------------------------|---------------------------|--------------------------|--------------------------|
| Background | CC01F | | | 1.11 | 0.101 | 0.200 | | | | | 4.61 | 0.389 |
| Mogul Mine Adit | CC02D | 0.259 | 0.108 | 0.178 | 0.109 | 0.109 | 0.123 | 0.154 | | | 0.138 | 0.095 |
| Red and Bonita Adit | CC03C | | | | | | | | | | | |
| American Tunnel | CC19 | 0.318 | 0.309 | 0.231 | 0.212 | 0.221 | 0.278 | 0.178 | 0.204 | 0.204 | 0.24 | 0.24 |
| 7-Level Adit | CC06 | 0.423 | 0.498 | 0.436 | 0.358 | 0.562 | | | | 0.333 | 0.558 | 0.485 |
| Red and Bonita Culvert | CC03D | 0.749 | 0.699 | 0.664 | 0.676 | 0.749 | | | | 0.403 | 0.488 | 0.517 |

Field Conductivity and pH

| Sept 2010 Flow cfs | Nov 2010 Flow cfs | March 2011 Flow cfs | June 2011 Flow cfs | July 2011 Flow cfs | Aug 2011 Flow cfs | Sept 2011 Flow cfs | Oct 2011 Flow cfs | May 2009 Temp °C | June 2009 Temp °C | July 2009 Temp °C | Aug 2009 Temp °C | Sept 2009 Temp °C |
|--------------------------|-------------------------|---------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|------------------------|-------------------------|-------------------------|------------------------|-------------------------|
| 0.075 | | | | 3.6 | 0.384 | 0.11 | 0.101 | | | 12.70 | 14.20 | 6.19 |
| 0.109 | 0.102 | | 0.212 | 0.088 | 0.13 | 0.095 | 0.095 | 5.19 | 4.92 | 5.31 | 5.23 | 4.95 |
| 0.268 | 0.24 | 0.212 | 0.24 | 0.212 | 0.221 | 0.221 | 0.24 | 7.56 | 7.66 | 7.71 | 7.70 | 7.69 |
| 0.449 | 0.473 | | 0.328 | 0.298 | 0.308 | 0.318 | 0.313 | 8.76 | 8.24 | 8.20 | 8.11 | 8.04 |
| 0.541 | 0.46 | | 0.724 | 0.676 | 0.7 | | | 9.17 | 8.28 | 8.15 | 6.08 | 3.89 |

Field Conductivity and pH

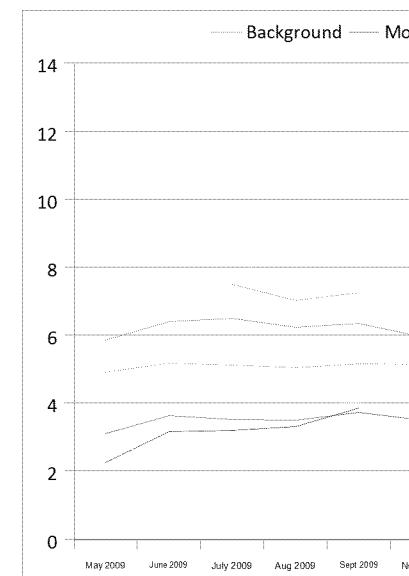
| Nov 2009 Temp °C | Feb 2010 Temp °C | March 2010 Temp °C | April 2010 Temp °C | June 2010 Temp °C | July 2010 Temp °C | Sept 2010 Temp °C | Nov 2010 Temp °C | March 2011 Temp °C | June 2011 Temp °C | July 2011 Temp °C | Aug 2011 Temp °C | Sept 2011 Temp °C | Oct 2011 Temp °C |
|------------------------|------------------------|--------------------------|--------------------------|-------------------------|-------------------------|-------------------------|------------------------|--------------------------|-------------------------|-------------------------|------------------------|-------------------------|------------------------|
| 4.86 | 4.76 | 5.13 | 5.08 | 4.38 | 0.31 | 12.45 | 12.3 | 1.1 | 4.99 | 10.51 | 13.58 | 2.8 | 1.62 |
| 7.65 | 7.63 | 7.62 | 7.61 | 7.52 | 7.78 | 5.33 | 5.3 | 5.1 | 6.05 | 5.42 | 5.3 | 5.26 | 5.11 |
| 2.09 | 3.22 | 6.85 | 9.4 | 6.83 | 8.19 | 7.8 | 6.2 | 5.9 | 7.48 | 6.05 | 6.15 | 6.12 | 6.05 |
| | | | | | | | 7.8 | 7.7 | 7.63 | 7.65 | 7.68 | 7.68 | 7.69 |
| | | | | | | | 8 | 8 | 8.56 | 8.42 | 8.13 | 8.02 | 7.95 |
| | | | | | | | | 8.94 | 8.06 | 9.59 | 8.26 | | |
| | | | | | | | | | | | | | |

Field Conductivity and pH

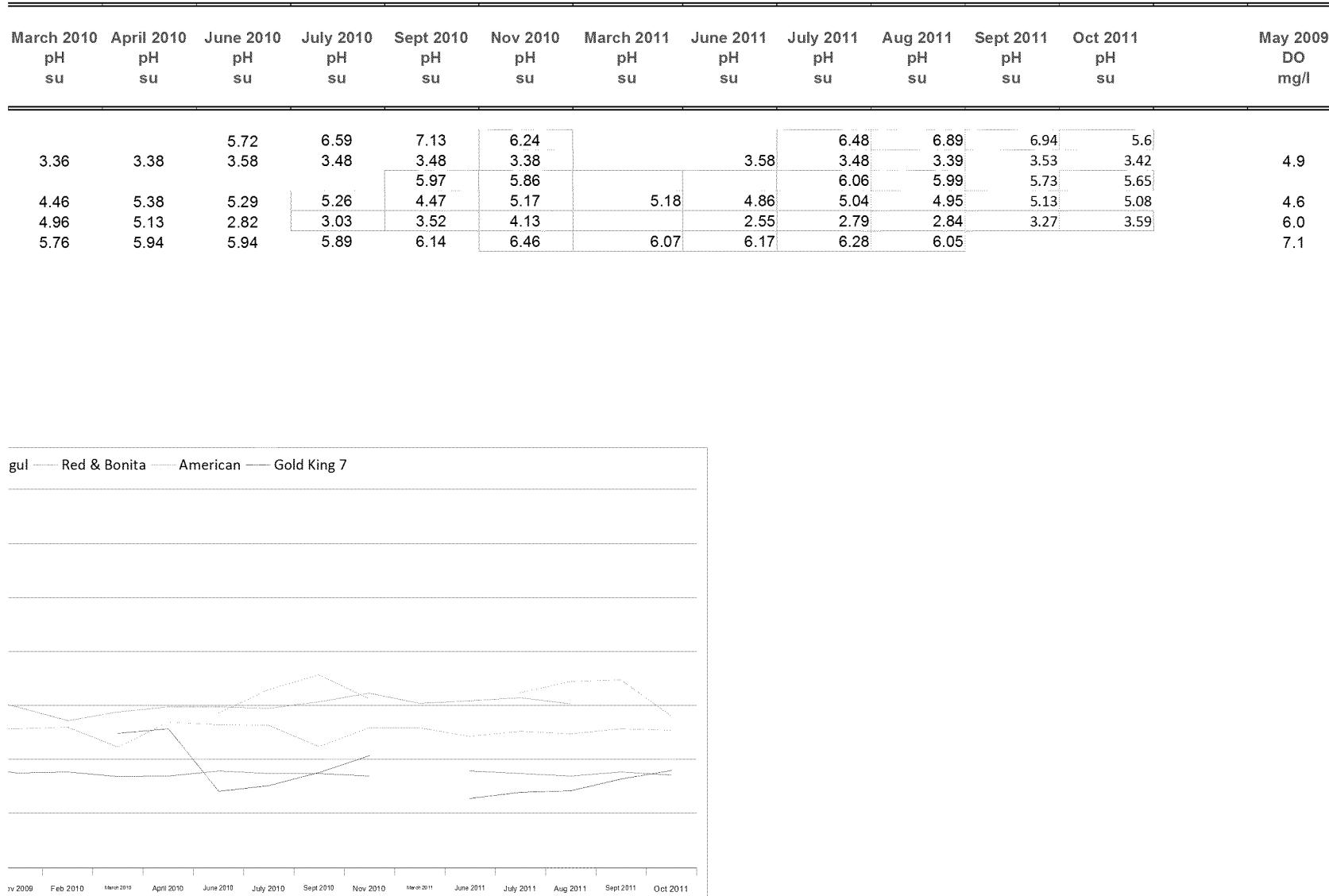
| May 2009 Cond µS/cm | June 2009 Cond µS/cm | July 2009 Cond µS/cm | Aug 2009 Cond µS/cm | Sept 2009 Cond µS/cm | Nov 2009 Cond µS/cm | Feb 2010 Cond µS/cm | March 2010 Cond µS/cm | April 2010 Cond µS/cm | June 2010 Cond µS/cm | July 2010 Cond µS/cm | Sept 2010 Cond µS/cm | Nov 2010 Cond µS/cm | |
|---------------------------|----------------------------|----------------------------|---------------------------|----------------------------|---------------------------|---------------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|---------------------------|------|
| 1274 | 1254 | 257 1296 | 365 1344 | 327 1347 | 1365 | 1345 | 1327 | 1322 | 785 | 129 1315 | 282 1357 | 332 1364 | 276 |
| 2338 | 2426 | 2445 | 2425 | 2409 | 2511 | 1957 | 2428 | 2450 | 1430 | 2352 | 2451 | 2201 | 1578 |
| 3076 | 2481 | 2476 | 2381 | 2175 | | | 1953 | 1955 | 3084 | 2443 | 2250 | 2386 | 2064 |
| 2074 | 2051 | 2090 | 2098 | 2114 | 2169 | 2181 | 2207 | 2288 | 2207 | 2173 | 2188 | 2164 | |

Field Conductivity and pH

| March 2011 Cond µS/cm | June 2011 Cond µS/cm | July 2011 Cond µS/cm | Aug 2011 Cond µS/cm | Sept 2011 Cond µS/cm | Oct 2011 Cond µS/cm | May 2009 pH su | June 2009 pH su | July 2009 pH su | Aug 2009 pH su | Sept 2009 pH su | Nov 2009 pH su | Feb 2010 pH su |
|-----------------------------|----------------------------|----------------------------|---------------------------|----------------------------|---------------------------|----------------------|-----------------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|
| | | | | | | | | | | | | |
| | | 221 | 362 | 365 | 293.2 | | | 7.49 | 7.02 | 7.24 | | |
| 1172 | 1255 | 1338 | 1419 | 1388 | | 3.11 | 3.63 | 3.52 | 3.50 | 3.72 | 3.50 | 3.54 |
| | 2069 | 2083 | 2088 | 2104 | | | | | | | | |
| 2395 | 2308 | 2389 | 2409 | 2379 | 2385 | 4.91 | 5.17 | 5.11 | 5.04 | 5.16 | 5.14 | 5.19 |
| | 3060 | 2835 | 2546 | 2326 | 2147 | 2.25 | 3.15 | 3.19 | 3.31 | 3.86 | | |
| 2244 | 2026 | 2028 | 2076 | | | 5.86 | 6.40 | 6.50 | 6.22 | 6.35 | 5.95 | 5.44 |

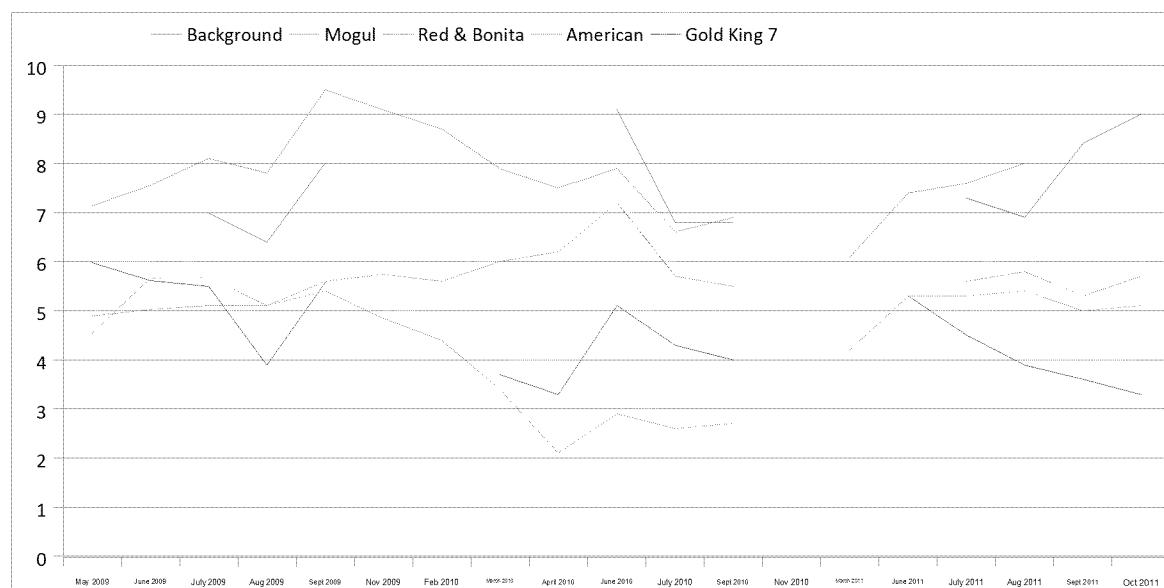


Field Conductivity and pH



Field Conductivity and pH

| June 2009 DO mg/l | July 2009 DO mg/l | Aug 2009 DO mg/l | Sept 2009 DO mg/l | Nov 2009 DO mg/l | Feb 2010 DO mg/l | March 2010 DO mg/l | April 2010 DO mg/l | June 2010 DO mg/l | July 2010 DO mg/l | Sept 2010 DO mg/l | Nov 2010 DO mg/l | March 2011 DO mg/l | June 2011 DO mg/l |
|-------------------------|-------------------------|------------------------|-------------------------|------------------------|------------------------|--------------------------|--------------------------|-------------------------|-------------------------|-------------------------|------------------------|--------------------------|-------------------------|
| 5.0 | 7.0 5.1 | 6.4 5.1 | 8.0 5.6 | 5.7 4.9 | 5.6 4.4 | 6 3.4 | 6.2 2.1 | 9.1 2.9 | 6.8 5.7 | 6.8 5.5 | | | |
| 5.7 | 5.7 | 5.1 | 5.4 | 4.9 | 4.4 | 3.4 | 2.1 | 2.9 | 2.6 | 2.7 | 4.2 | 5.3 | |
| 5.6 | 5.5 | 3.9 | 5.6 | | | 3.7 | 3.3 | 5.1 | 4.3 | 4 | | 5.3 | |
| 7.6 | 8.1 | 7.8 | 9.5 | 9.1 | 8.7 | 7.9 | 7.5 | 7.9 | 6.6 | 6.9 | 6.1 | 7.4 | |



Field Conductivity and pH

| July 2011 | Aug 2011 | Sept 2011 | Oct 2011 |
|------------|------------|------------|------------|
| DO mg/l | DO mg/l | DO mg/l | DO mg/l |
| 7.3 | 6.9 | 8.4 | 9 |
| 5.6 | 5.8 | 5.3 | 5.7 |
| 7 | 7 | 3.7 | 6.9 |
| 5.3 | 5.4 | 5 | 5.1 |
| 4.5 | 3.9 | 3.6 | 3.3 |
| 7.6 | 8 | | |

ANIMAS RIVER 2009 - 2011 DATA SUMMARY - Acidity, TSS, TDS

| Location Name | Station ID | May 2009 Acidity mg/L | June 2009 Acidity mg/L | July 2009 Acidity mg/L | Aug 2009 Acidity mg/L | Sept 2009 Acidity mg/L |
|------------------------|--------------|-----------------------------|------------------------------|------------------------------|-----------------------------|------------------------------|
| Background | CC01F | | <10 | <10 | <10 | |
| Mogul Mine Adit | CC02D | 130 | 160 | 170 | 150 | |
| Red and Bonita Adit | CC03C | | | | | |
| American Tunnel | CC19 | 360 | 380 | 390 | 380 | |
| 7-Level Adit | CC06 | 470 | 440 | 410 | 330 | |
| Red and Bonita Culvert | CC03D | 200 | 220 | 233 | 250 | |

Traditionally, the character of acid mine drainage is determined by its acid

| Nov 2009 Acidity mg/L | Feb 2010 Acidity mg/L | March 2010 Acidity mg/L | April 2010 Acidity mg/L | June 2010 Acidity mg/L | July 2010 Acidity mg/L | Sept 2010 Acidity mg/L |
|-----------------------------|-----------------------------|-------------------------------|-------------------------------|------------------------------|------------------------------|------------------------------|
| 140 | 130 | 160 | | <10 | <10 | <10 |
| 350 | 360 | 380 | | 140 | 140 | 160 |
| | | 170 | | 380 | 380 | 360 |
| 210 | 200 | 240 | | 1000 | 420 | 310 |
| | | | | 240 | 230 | 190 |

ity (mg/L), which is measured by titrating AMD with sodium hydroxide solution from the AMD initial pH till pH 8.3. T

| Nov 2010 Acidity mg/L | March 2011 Acidity mg/L | June 2011 Acidity mg/L | July 2011 Acidity mg/L | Aug 2011 Acidity mg/L | Sept 2011 Acidity mg/L |
|-----------------------------|-------------------------------|------------------------------|------------------------------|-----------------------------|------------------------------|
| <10 | | | <10 | <10 | <10 |
| 140 | | 120 | 130 | 150 | 170 |
| 220 | | | 200 | 200 | 210 |
| 340 | 350 | 330 | 360 | 320 | 320 |
| 250 | | 1100 | 850 | 550 | 410 |
| 220 | 250 | 230 | 170 | 190 | 180 |

hen calculate the moles of NaOH that consumed by one liter of AMD, and transfer the mole number into the weigh

| Oct 2011 Acidity mg/L | May 2009 TSS mg/l | June 2009 TSS mg/l | July 2009 TSS mg/l | Aug 2009 TSS mg/l | Sept 2009 TSS mg/L | Nov 2009 TSS mg/L |
|-----------------------------|-------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|
| <10 | | | <20 | <20 | <20 | |
| 150 | | 22 | 26 | <20 | 25 | <20 |
| 180 | | | | | | |
| 350 | | 24 | 26 | <20 | <20 | <20 |
| 320 | | 29 | 30 | <20 | 20 | |
| 180 | | 33 | 23 | 27 | 28 | 23 |

t of CaCO₃. It is the value of acidity (mg/L) of AMD. Hence, the direct meaning of acidity is: weight of CaCO₃ need

| Feb 2010 TSS mg/l | March 2010 TSS mg/l | April 2010 TSS mg/l | June 2010 TSS mg/l | July 2010 TSS mg/l | Sept 2010 TSS mg/L | Nov 2010 TSS mg/L |
|-------------------------|---------------------------|---------------------------|--------------------------|--------------------------|--------------------------|-------------------------|
| <20 | <20 | | <20 | <20 | <20 | <20 |
| <20 | <20 | | <20 | <20 | 24 | <20 |
| <20 | <20 | | <20 | <20 | <20 | <20 |
| | <20 | | <20 | 26 | 23 | <20 |
| 22 | 22 | | 28 | 24 | 25 | 27 |

ed to neutralize the pH of 1 liter AMD. Wikipedia. http://en.wikipedia.org/wiki/Acid_mine_drainage.

| March 2011 | June 2011 | July 2011 | Aug 2011 | Sept 2011 | Oct 2011 |
|------------|-----------|-----------|----------|-----------|----------|
| TSS | TSS | TSS | TSS | TSS | TSS |
| mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |

| | | | | | |
|-----|-----|-----|-------|-----|-----|
| | | <20 | <20 | <20 | <20 |
| <20 | | <20 | <20 | <20 | <20 |
| | | <20 | <20 | | 21 |
| <20 | 28 | 31 | 82<20 | | 28 |
| | <20 | | 28<20 | <20 | 28 |
| | 33 | 25 | 32 | 110 | 54 |
| | | | | | 51 |

| May 2009 | June 2009 | July 2009 | Aug 2009 | Sept 2009 | Nov 2009 | Feb 2010 | March 2010 |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| TDS mg/l |

| | | | | | | | |
|------|------|------|------|------|------|------|------|
| | 44 | 250 | 220 | | | | |
| 1100 | 1100 | 1200 | 1200 | 1100 | 1100 | 1100 | 1100 |

| | | | | | | |
|------|------|------|------|------|------|------|
| 2600 | 2900 | 2400 | 2600 | 2400 | 2300 | 2300 |
| 2300 | 2200 | 2300 | 2100 | | | 1700 |
| 2000 | 2000 | 2100 | 2100 | 2000 | 2100 | 2200 |

| April 2010 | June 2010 | July 2010 | Sept 2010 | Nov 2010 | March 2011 | June 2011 |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| TDS mg/l |

| | | | | | | |
|--|------|------|------|------|------|------|
| | 85 | 190 | 200 | 180 | | |
| | 1000 | 1300 | 1100 | 1000 | | 960 |
| | | | 2000 | 2000 | | |
| | 2400 | 2500 | 2300 | 2300 | 2500 | 2500 |
| | 3100 | 2500 | 1900 | 1900 | | 3500 |
| | 2100 | 2100 | 2000 | 2000 | 2100 | 2000 |

| July 2011 | Aug 2011 | Sept 2011 | Oct 2011 |
|-----------|----------|-----------|----------|
| TDS | TDS | TDS | TDS |
| mg/L | mg/L | mg/L | mg/L |

| | | | |
|------|------|------|------|
| 150 | 270 | 240 | 190 |
| 1100 | 1200 | 1100 | 1200 |
| 2100 | 2100 | 2200 | 2200 |
| 2500 | 2100 | 2500 | 2600 |
| 2900 | 2500 | 2300 | 2200 |
| 2000 | 2100 | 2100 | 2200 |

ANIMAS RIVER 2009 - 2011 DATA SUMMARY - Anions, TOC, DOC

| Location Name | Sampling Station | May 2009 | June 2009 | July 2009 | Aug 2009 |
|------------------------|------------------|----------|-----------|-----------|----------|
| | | F mg/L | F mg/L | F mg/L | F mg/L |
| Background | CC01F | | | 0.28 | <0.20 |
| Mogul Mine Adit | CC02D | 4.13 | 4.21 | 4.82 | 2.23 |
| Red and Bonita Adit | CC03C | | | | |
| American Tunnel | CC19 | 2.35 | 2.78 | 3.37 | 3.41 |
| 7-Level Adit | CC06 | 5.73 | 6.78 | 6.18 | 6.66 |
| Red and Bonita Culvert | CC03D | 6.73 | 5.6 | 0.45 | 6.03 |

| Sept 2009 F mg/L | Nov 2009 F mg/L | Feb 2010 F mg/L | March 2010 F mg/L | April 2010 F mg/L | June 2010 F mg/L | July 2010 F mg/L | Sept 2010 F mg/L |
|------------------------|-----------------------|-----------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|
| <0.20 | | | | | <0.20 | <0.20 | 0.24 |
| 4.34 | 4.6 | 4.16 | 4.06 | 3.91 | 3.98 | 4.73 | 4.62 |
| | | | | | | | 2.54 |
| 3.32 | 2.84 | 3.52 | 3.39 | 3.64 | 2.66 | 3.78 | 3.02 |
| 7.2 | | 6.97 | 7.55 | 6.11 | 3.41 | 5.78 | 5.92 |
| 6.69 | 6.67 | <0.20 | 6.73 | 15.4 | 6.88 | 7.62 | 6.61 |

| Nov 2010 | March 2011 | June 2011 | July 2011 | Aug 2011 | Sept 2011 | Oct 2011 |
|----------|------------|-----------|-----------|----------|-----------|----------|
| F | F | F | F | F | F | F |
| mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |

| | | | | | | |
|------|-----|-----|-----|-----|-----|-----|
| 0.35 | | | 0.2 | 0.2 | 0.2 | 0.2 |
| 4.81 | | 3.9 | 4.5 | 4.8 | 4.5 | 4.7 |
| 6.73 | | | 6.4 | 6.4 | 6.2 | 6.4 |
| 3.35 | 3 | 3.2 | 3.2 | 3.2 | 3 | 3.1 |
| 7.12 | | 4.6 | 5.9 | 4.3 | 5.7 | 7.5 |
| 6.8 | 6.1 | 6.8 | 6 | 6 | | |

| May 2009 Cl mg/L | June 2009 Cl mg/L | July 2009 Cl mg/L | Aug 2009 Cl mg/L | Sept 2009 Cl mg/L | Nov 2009 Cl mg/L | Feb 2010 Cl mg/L | March 2010 Cl mg/L |
|------------------------|-------------------------|-------------------------|------------------------|-------------------------|------------------------|------------------------|--------------------------|
| <1.0 | <2.0 | <1.0 | <0.5 | <0.5 | <1.0 | <1.0 | <1.0 |
| <1.0 | <2.5 | 0.5 | 0.5 | 0.5 | <0.5 | <0.5 | <1.0 |
| <1.0 | <2.5 | <1.0 | <1.0 | <1.0 | | <0.5 | <0.5 |

| April 2010 Cl mg/L | June 2010 Cl mg/L | July 2010 Cl mg/L | Sept 2010 Cl mg/L | Nov 2010 Cl mg/L | March 2011 Cl mg/L | June 2011 Cl mg/L | July 2011 Cl mg/L |
|--------------------------|-------------------------|-------------------------|-------------------------|------------------------|--------------------------|-------------------------|-------------------------|
| <0.5 | <0.5 | <0.1 | <0.1 | | | | <0.5 |
| <1.0 | <1.0 | <1.0 | <0.2 | <0.2 | | <1.0 | <1.0 |
| | | | <0.1 | <0.1 | | | <0.5 |
| <0.5 | <0.5 | <0.5 | <0.2 | <0.1 | <0.5 | <0.5 | <0.5 |
| <0.5 | <1.0 | <1.0 | <0.2 | <0.2 | | <1.0 | <1.0 |

| Aug 2011 Cl mg/L | Sept 2011 Cl mg/L | Oct 2011 Cl mg/L | May 2009 SO4 mg/L | June 2009 SO4 mg/L | July 2009 SO4 mg/L | Aug 2009 SO4 mg/L |
|------------------------|-------------------------|------------------------|-------------------------|--------------------------|--------------------------|-------------------------|
| <0.5 | <0.5 | <0.5 | | | 100 | 155 |
| <1.0 | <1.0 | <1.0 | 588 | 634 | 710 | 741 |
| <0.5 | <0.5 | <0.5 | | | | |
| <0.5 | <0.5 | <0.5 | 1590 | 1470 | 1760 | 1790 |
| <1.0 | <1.0 | <1.0 | 2020 | 1330 | 1590 | 1600 |

| Sept 2009 SO4 mg/L | Nov 2009 SO4 mg/L | Feb 2010 SO4 mg/L | March 2010 SO4 mg/L | April 2010 SO4 mg/L | June 2010 SO4 mg/L | July 2010 SO4 mg/L | Sept 2010 SO4 mg/L |
|--------------------------|-------------------------|-------------------------|---------------------------|---------------------------|--------------------------|--------------------------|--------------------------|
| 133 | | | | | 45 | 105 | 125 |
| 703 | 758 | 721 | 642 | 713 | 609 | 677 | 687 |
| | | | | | | | 655 |
| 1670 | 1390 | 1680 | 1530 | 1780 | 1980 | 1800 | 1530 |
| 1410 | | 1250 | 1260 | 1750 | 2070 | 1440 | 1290 |

| Nov 2010 SO4 mg/L | March 2011 SO4 mg/L | June 2011 SO4 mg/L | July 2011 SO4 mg/L | Aug 2011 SO4 mg/L | Sept 2011 SO4 mg/L | Oct 2011 SO4 mg/L |
|-------------------------|---------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|
| 110 | | | 75.7 | 138 | 136 | 116 |
| 744 | | 607 | 616 | 661 | 657 | 729 |
| 1420 | | | 1280 | 1290 | 1260 | 1360 |
| 1690 | 1460 | 1090 | 902 | 1600 | 1530 | 1630 |
| 1660 | | 2110 | 3160 | 1540 | 1360 | 1370 |

| May 2009 TOC mg/L | June 2009 TOC mg/L | July 2009 TOC mg/L | Aug 2009 TOC mg/L | Sept 2009 TOC mg/L | Nov 2009 TOC mg/L | Feb 2010 TOC mg/L | March 2010 TOC mg/L |
|-----------------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|-------------------------|---------------------------|
| * No TOC results found for 2010 d | | | | | | | |

| | | | | |
|-------|-------|-------|-------|-------|
| | | <0.50 | <0.50 | <0.50 |
| <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | <0.50 | <0.50 | <0.50 |
| | | <0.50 | <0.50 | <0.50 |

| April 2010 | June 2010 | July 2010 | Sept 2010 | Nov 2010 | May 2009 | June 2009 |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| TOC mg/L | TOC mg/L | TOC mg/L | TOC mg/L | TOC mg/L | DOC mg/L | DOC mg/L |
| ata | | | | | <0.50 | <0.50 |

<0.50 <0.50

<0.50 <0.50
0.56 <0.50

| July 2009 DOC mg/L | Aug 2009 DOC mg/L | Sept 2009 DOC mg/L | Nov 2009 DOC mg/L | Feb 2010 DOC mg/L | March 2010 DOC mg/L | April 2010 DOC mg/L | June 2010 DOC mg/L |
|--------------------------------------|-------------------------|--------------------------|-------------------------|-------------------------|---------------------------|---------------------------|--------------------------|
| * No DOC results found for 2010 data | | | | | | | |

| | | |
|-------|-------|-------|
| <0.50 | <0.50 | 0.68 |
| <0.50 | <0.50 | <0.50 |
| <0.50 | <0.50 | <0.50 |
| <0.50 | 0.58 | <0.50 |

| July 2010 | Sept 2010 | Nov 2010 |
|-----------|-----------|----------|
| DOC | DOC | DOC |
| mg/L | mg/L | mg/L |

ANIMAS RIVER 2009 - 2011 DATA SUMMARY - Cations, Hardness

| Location Name | Station ID | May 2009 | June 2009 | July 2009 | Aug 2009 | Sept 2009 |
|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | Ca-d ug/L | Ca-d ug/L | Ca-d ug/L | Ca-d ug/L | Ca-d ug/L |
| Background | CC01F | | | 41100 | 61600 | 54400 |
| Mogul Mine Adit | CC02D | 183000 | 171000 | 191000 | 207000 | 216000 |
| Red and Bonita Adit | CC03C | | | | | |
| American Tunnel | CC19 | 455000 | 429000 | 456000 | 451000 | 447000 |
| 7-Level Adit | CC06 | 368000 | 382000 | 398000 | 392000 | 394000 |
| Red and Bonita Culvert | CC03D | 395000 | 382000 | 405000 | 408000 | 415000 |

| Nov 2009 Ca-d µg/L | Feb 2010 Ca-d ug/L | March 2010 Ca-d µg/L | April 2010 Ca-d µg/L | June 2010 Ca-d µg/L | July 2010 Ca-d µg/L | Sept 2010 Ca-d µg/L | Nov 2010 Ca-d µg/L |
|--------------------------|--------------------------|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|--------------------------|
| 207000 | 223000 | 201000 | 210000 | 18100 | 46700 | 58300 | 48600 |
| 400000 | 472000 | 464000 | 484000 | 168000 | 197000 | 227000 | 229000 |
| 390000 | | 404000 | 414000 | | 445000 | 436000 | |
| 425000 | 457000 | 411000 | 430000 | 407000 | 457000 | 470000 | 464000 |
| | | | | 344000 | 403000 | 403000 | 410000 |
| | | | | 398000 | 422000 | 453000 | 443000 |

| March 2011 Ca-d µg/L | June 2011 Ca-d µg/L | July 2011 Ca-d µg/L | Aug 2011 Ca-d µg/L | Sept 2011 Ca-d µg/L | Oct 2011 Ca-d µg/L | May 2009 Mg-d ug/L |
|----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|
| | | 35100 | 61800 | 60100 | 49300 | |
| | 178000 | 192000 | 202000 | 208000 | 212000 | 11500 |
| | | 403000 | 398000 | 399000 | 401000 | |
| 432000 | 423000 | 438000 | 436000 | 424000 | 427000 | 31000 |
| | 351000 | 366000 | 359000 | 365000 | 361000 | 37000 |
| 432000 | 386000 | 391000 | 391000 | | | |

| June 2009 Mg-d µg/L | July 2009 Mg-d µg/L | Aug 2009 Mg-d µg/L | Sept 2009 Mg-d µg/L | Nov 2009 Mg-d µg/L | Feb 2010 Mg-d ug/L | March 2010 Mg-d µg/L | April 2010 Mg-d µg/L |
|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|----------------------------|----------------------------|
| 10600 | 3550 12200 | 4940 13000 | 4460 13300 | 13200 | 13900 | 12700 | 13000 |
| 30200 26100 | 31300 27000 | 31100 25800 | 31000 23900 | 27900 | 31900 19200 | 31100 19800 | 32400 19500 |

| June 2010 Mg-d µg/L | July 2010 Mg-d µg/L | Sept 2010 Mg-d µg/L | Nov 2010 Mg-d µg/L | March 2011 Mg-d µg/L | June 2011 Mg-d µg/L | July 2011 Mg-d µg/L | Aug 2011 Mg-d µg/L |
|---------------------------|---------------------------|---------------------------|--------------------------|----------------------------|---------------------------|---------------------------|--------------------------|
| 1740 | 3830 | 4740 | 4060 | | | 3480 | 5280 |
| 10200 | 12300 | 13900 | 14500 | | 11600 | 12000 | 13100 |
| | | 28200 | 27000 | | | 24900 | 25700 |
| 26500 | 32700 | 33000 | 30300 | 29600 | 29700 | 30500 | 31000 |
| 33800 | 26500 | 24900 | 22200 | | 36300 | 33600 | 29000 |

| Sept 2011 | Oct 2011 | May 2009 | June 2009 | July 2009 | Aug 2009 | Sept 2009 |
|--------------|--------------|------------------|------------------|------------------|------------------|------------------|
| Mg-d µg/L | Mg-d µg/L | Hardness mg/L | Hardness mg/L | Hardness mg/L | Hardness mg/L | Hardness mg/L |
| 5020 | 4220 | | | 117.2 | 174.1 | 154.2 |
| 12600 | 12900 | 504.3 | 470.6 | 527.1 | 570.4 | 594.1 |
| 24100 | 25100 | | | | | |
| 28400 | 28900 | 1263.7 | 1195.5 | 1267.5 | 1254.2 | 1243.8 |
| 24600 | 22700 | 1071.2 | 1061.3 | 1104.9 | 1085.0 | 1082.2 |

| Nov 2009 Hardness mg/L | Feb 2010 Hardness mg/L | March 2010 Hardness mg/L | April 2010 Hardness mg/L | June 2010 Hardness mg/L | July 2010 Hardness mg/L | Sept 2010 Hardness mg/L | Nov 2010 Hardness mg/L |
|------------------------------|------------------------------|--------------------------------|--------------------------------|-------------------------------|-------------------------------|-------------------------------|------------------------------|
| 571.2 | 614.0 | 554.2 | 577.9 | 52.4 | 132.4 | 165.1 | 138.1 |
| 1113.6 | 1309.9 | 1286.6 | 1341.9 | 461.5 | 542.5 | 624.0 | 631.5 |
| | 1052.9 | 1090.3 | 1114.0 | 1125.4 | 1275.7 | 1309.4 | 1283.3 |
| | | | | 998.1 | 1115.4 | 1108.8 | 1115.1 |

| March 2011 Hardness mg/L | June 2011 Hardness mg/L | July 2011 Hardness mg/L | Aug 2011 Hardness mg/L | Sept 2011 Hardness mg/L | Oct 2011 Hardness mg/L | Avg Hard mg/L |
|--------------------------------|-------------------------------|-------------------------------|------------------------------|-------------------------------|------------------------------|------------------|
| | | 102.0 | 176.0 | 170.7 | 140.5 | 135 |
| | 492.2 | 528.8 | 558.3 | 571.2 | 582.5 | 551 |
| | | 1108.8 | 1099.6 | 1095.5 | 1104.6 | 1104 |
| 1200.5 | 1178.5 | 1219.2 | 1216.3 | 1175.6 | 1185.2 | 1240 |
| | 1025.9 | 1052.2 | 1015.8 | 1012.7 | 994.9 | 1083 |

| May 2009 K-d ug/L | June 2009 K-d ug/L | July 2009 K-d ug/L | Aug 2009 K-d ug/L | Sept 2009 K-d ug/L | Nov 2009 K-d ug/L | Feb 2010 K-d ug/L | March 2010 K-d ug/L |
|-------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|-------------------------|---------------------------|
| 2130 | 2140 | <1000 2330 | <1000 2320 | <1000 2320 | 2300 | 2150 | 2130 |
| 1840 | 2020 | 1920 | 1910 | 1850 | 1650 | 1670 | 1930 |
| 1640 | 1750 | 1890 | 2200 | 2020 | | 1790 | 1760 |

| April 2010 K-d µg/L | June 2010 K-d µg/L | July 2010 K-d µg/L | Sept 2010 K-d µg/L | Nov 2010 K-d µg/L | March 2011 K-d µg/L | June 2011 K-d µg/L | July 2011 K-d µg/L |
|---------------------------|--------------------------|--------------------------|--------------------------|-------------------------|---------------------------|--------------------------|--------------------------|
| 2110 | <1000 1840 | <1000 2200 1860 | <170 2560 1740 | <170 2340 | | 2160 | <1000 2290 1740 |
| 1830 | 1720 | 1930 | 1950 | 1770 | 1950 | 1790 | 1790 |
| 1690 | 1590 | 1710 | 2160 | 1760 | | 1570 | 1500 |

| Aug 2011 K-d µg/L | Sept 2011 K-d µg/L | Oct 2011 K-d µg/L | May 2009 Na-d ug/L | June 2009 Na-d µg/L | July 2009 Na-d µg/L | Aug 2009 Na-d µg/L |
|-------------------------|--------------------------|-------------------------|--------------------------|---------------------------|---------------------------|--------------------------|
| <1000 | <1000 | <1000 | | | 1100 | 1420 |
| 2330 | 2460 | 2260 | 6070 | 5970 | 6380 | 6130 |
| 1750 | 1810 | 1740 | | | | |
| 1770 | 1790 | 1650 | 10100 | 10400 | 10200 | 9920 |
| 2130 | 2010 | 1840 | 5130 | 5650 | 6050 | 5420 |

| Sept 2009 Na-d µg/L | Nov 2009 Na-d µg/L | Feb 2010 Na-d ug/L | March 2010 Na-d µg/L | April 2010 Na-d µg/L | June 2010 Na-d µg/L | July 2010 Na-d µg/L | Sept 2010 Na-d µg/L |
|---------------------------|--------------------------|--------------------------|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|
| 1350 | | | | 830 | | 1140 | 1400 |
| 6660 | 7120 | 6830 | 6680 | 6430 | 5430 | 6050 | 6760 |
| | | | | | | 9140 | |
| 10200 | 9490 | 9980 | 10600 | 10400 | 9290 | | 10500 |
| 5820 | | 5850 | 6090 | 6140 | 4740 | 5370 | 5730 |

| Nov 2010 Na-d µg/L | March 2011 Na-d µg/L | June 2011 Na-d µg/L | July 2011 Na-d µg/L | Aug 2011 Na-d µg/L | Sept 2011 Na-d µg/L | Oct 2011 Na-d µg/L |
|--------------------------|----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|
| 1330 | | | 848 | 1400 | 1380 | 1280 |
| 6660 | | 5920 | 5870 | 6230 | 6490 | 6540 |
| 8790 | | | 8490 | 8660 | 8720 | 8780 |
| 9630 | 10100 | 9820 | 9440 | 9930 | 9930 | 9840 |
| 5530 | | 4910 | 4760 | 5440 | 5640 | 5460 |

Aluminum

ANIMAS RIVER 2009 - 2011 DATA SUMMARY - Aluminum

| Location Name | Station ID | May 2009 Al-t µg/L | June 2009 Al-t µg/L | July 2009 Al-t µg/L | Aug 2009 Al-t µg/L | Sept 2009 Al-t µg/L | Nov 2009 Al-t µg/L | Feb 2010 Al-t µg/L | March 2010 Al-t µg/L | April 2010 Al-t µg/L | June 2010 Al-t µg/L | July 2010 Al-t µg/L | Sept 2010 Al-t µg/L |
|------------------------|------------|--------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|
| Background | CC01F | | | 204 | 226 | 243 | | | | | 248 | 154 | 261 |
| Mogul Mine Adit | CC02D | 2880 | 3360 | 3610 | 3530 | 3250 | 3130 | 2910 | 2720 | 2420 | 2520 | 3250 | 3440 |
| Red and Bonita Adit | CC03C | | | | | | | | | | | | 3310 |
| American Tunnel | CC19 | 5680 | 5520 | 5510 | 5380 | 5510 | 5470 | 5480 | 4960 | 5100 | 5070 | 5310 | 4970 |
| 7-Level Adit | CC06 | 58300 | 32900 | 31800 | 28500 | 21500 | | 8310 | 8240 | 7840 | 61600 | 30200 | 24200 |
| Red and Bonita Culvert | CC03D | 4030 | 3040 | 3380 | 3500 | 3520 | 3780 | 4410 | 3960 | 3820 | 3890 | 4050 | 3920 |
| CC above Southfork | CC18 | | | | | | | | | | | | |
| Background | CC01F | | | | | | | | | | | | |
| Mogul Mine Adit | CC02D | | | | | | | | | | | | |
| Red and Bonita Adit | CC03C | | | | | | | | | | | | |
| American Tunnel | CC19 | | | | | | | | | | | | |
| 7-Level Adit | CC06 | | | | | | | | | | | | |
| Red and Bonita Culvert | CC03D | | | | | | | | | | | | |
| CC above Southfork | CC18 | | | | | | | | | | | | |

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| Nov 2010 Al-t µg/L | March 2011 Al-t µg/L | June 2011 Al-t µg/L | July 2011 Al-t µg/L | Aug 2011 Al-t µg/L | Sept 2011 Al-t µg/L | Oct 2011 Al-t µg/L | May 2009 Al-d ug/L | June 2009 Al-d µg/L | July 2009 Al-d µg/L | Aug 2009 Al-d µg/L | Sept 2009 Al-d µg/L | Nov 2009 Al-d µg/L | Feb 2010 Al-d ug/L |
|--------------------------|----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|
| 294 | | | 166 | 179 | 151 | 224 | | | 180 | 204 | 181 | | |
| 3180 | | 2600 | 3420 | 3530 | 3490 | 3330 | 2850 | 3150 | 3630 | 3580 | 3320 | 3140 | 2910 |
| 3130 | | | 4170 | 3290 | 4040 | 4010 | | | | | | | |
| 5360 | 4840 | 5160 | 5180 | 4850 | 4750 | 4690 | 5360 | 5530 | 5250 | 5240 | 5280 | 4830 | 5180 |
| 18600 | | 57400 | 53500 | 36700 | 28700 | 21000 | 59000 | 33400 | 31900 | 28600 | 21600 | 7670 | |
| 3990 | 3790 | 4130 | 3750 | 3360 | | | 3320 | 1840 | 2000 | 2640 | 2440 | 3270 | 3920 |

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| March 2010 Al-d µg/L | April 2010 Al-d µg/L | June 2010 Al-d µg/L | July 2010 Al-d µg/L | Sept 2010 Al-d µg/L | Nov 2010 Al-d µg/L | March 2011 Al-d µg/L | June 2011 Al-d µg/L | July 2011 Al-d µg/L | Aug 2011 Al-d µg/L | Sept 2011 Al-d µg/L | Oct 2011 Al-d µg/L | May 2009 Flow cfs |
|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|--------------------------|----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|-------------------------|
| 2610 | 2510 | 2390 | <100 | 137 | 151 | <25.0 | | <100 | 116 | <100 | <100 | |
| | | | | 3110 | 3700 | 3230 | | 2610 | 3400 | 3690 | 3480 | 0.259 |
| | | | | | 3470 | 3060 | | 4080 | 3480 | 3840 | 4050 | |
| 4810 | 4710 | 4200 | 5310 | 4930 | 4660 | 4870 | 4810 | 4900 | 4870 | 4680 | 4660 | 0.318 |
| 8040 | 7220 | 57700 | 30200 | 25700 | 17300 | | 60000 | 52200 | 39200 | 28300 | 21700 | 0.423 |
| 2690 | 2280 | 2770 | | 4050 | 2970 | 2000 | | 2440 | 2890 | 2240 | 2450 | 0.749 |
| | | | | | | | | | | | | 48.8 |

Flow in Gallons per Minu

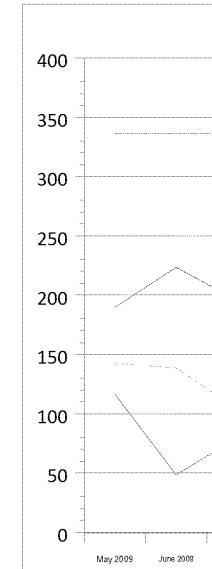
116.05968

142.7184

189.79752

336.06144

21897.65325



Aluminum

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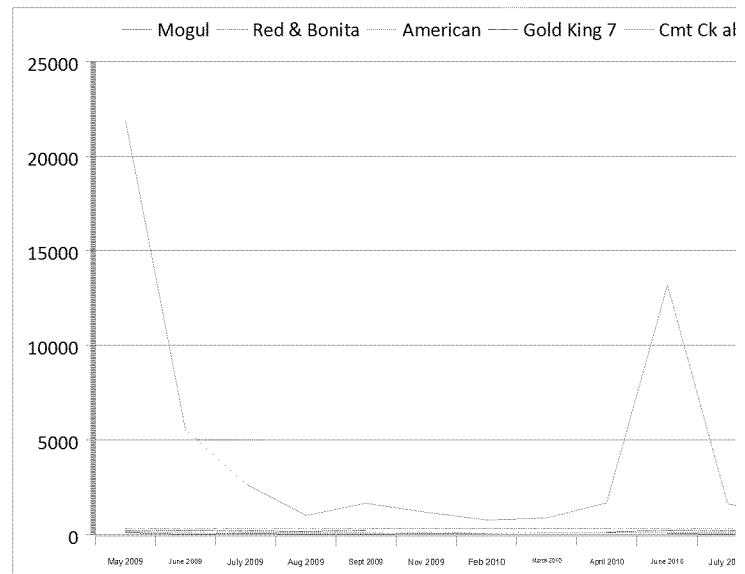
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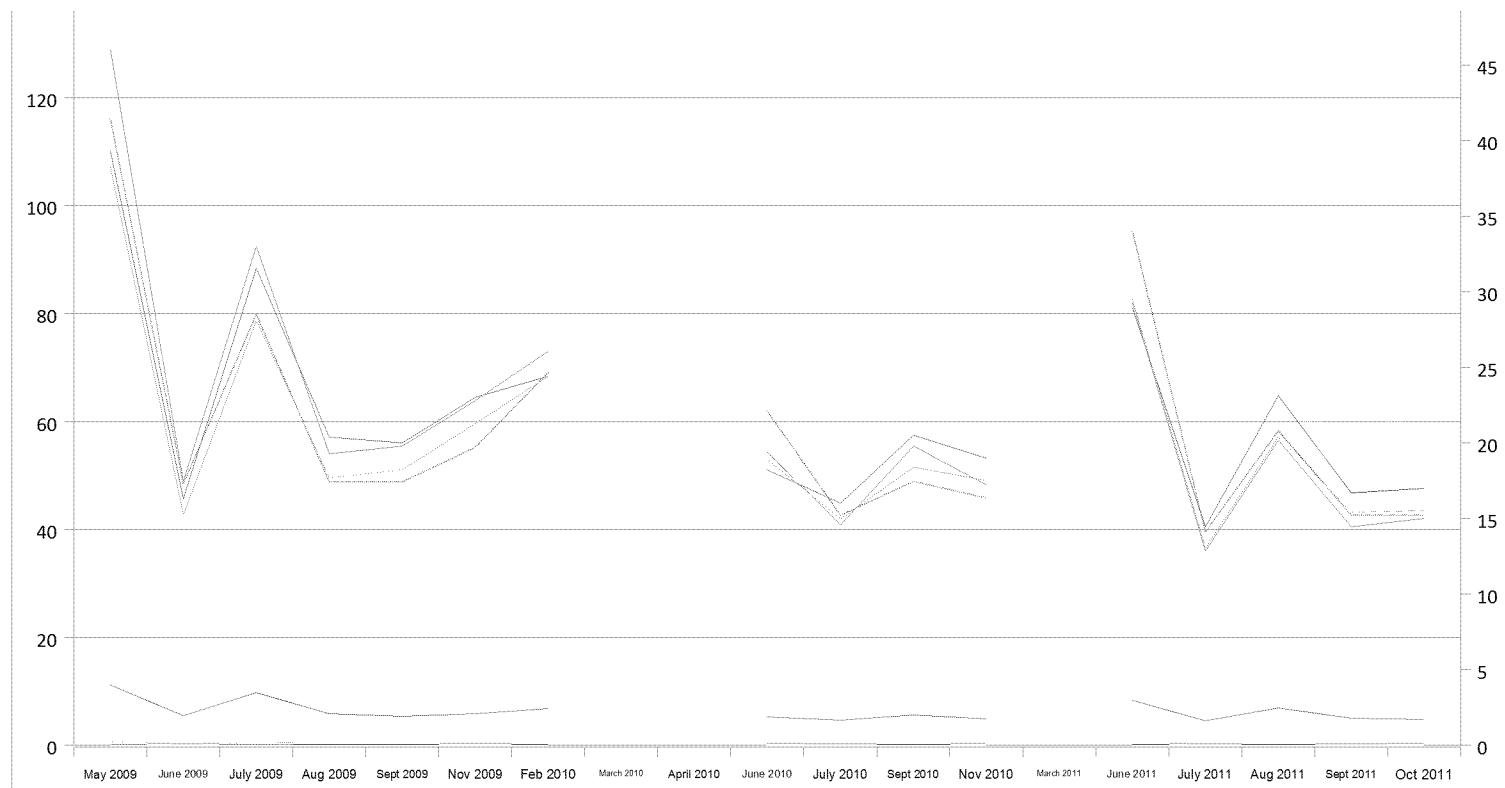
| June 2009 Flow cfs | July 2009 Flow cfs | Aug 2009 Flow cfs | Sept 2009 Flow cfs | Nov 2009 Flow cfs | Feb 2010 Flow cfs | March 2010 Flow cfs | April 2010 Flow cfs | June 2010 Flow cfs | July 2010 Flow cfs | Sept 2010 Flow cfs | Nov 2010 Flow cfs | March 2011 Flow cfs | June 2011 Flow cfs | July 2011 Flow cfs |
|-----------------------------------|----------------------------------|------------------------------------|------------------------------------|-------------------------|-------------------------|---------------------------|---------------------------|--------------------------|--------------------------|--------------------------|-------------------------|---------------------------|--------------------------|--------------------------|
| 0.108 | 1.11 0.178 | 0.101 0.109 | 0.200 0.109 | 0.123 | 0.154 | | | 4.61 0.138 | 0.389 0.095 | 0.075 0.109 | | | 3.6 0.212 | 0.088 |
| 0.309 | 0.231 | 0.212 | 0.221 | 0.278 | 0.178 | 0.204 | 0.204 | 0.24 | 0.24 | 0.268 | 0.24 | 0.212 | 0.24 | 0.212 |
| 0.498 | 0.436 | 0.358 | 0.562 | | | | 0.333 | 0.558 | 0.485 | 0.449 | 0.473 | | 0.328 | 0.298 |
| 0.749 | 0.749 | 0.749 | 0.749 | 0.749 | 0.749 | 0.749 | 0.749 | 0.749 | 0.749 | 0.749 | 0.749 | 0.749 | 0.749 | 0.749 |
| 12.3 | 5.94 | 2.29 | 3.66 | 2.67 | 1.77 | 1.99 | 3.76 | 29.4 | 3.59 | 2.31 | 2.42 | 1.63 | 46.2 | 14.3 |
| 48.4704 | 496.3728 79.84152 | 45.18159 48.73968 | 89.70973 48.73968 | 55.15752 | 69.1152 | | | 2068.968 61.9344 | 174.5832 42.636 | 33.66 48.9192 | | | 1615.68 95.1456 | 39.4944 |
| 138.6792 223.5024 336.06144 | 103.4484 195.48606 5520.24 | 95.32512 160.51332 336.06144 | 99.36432 252.41948 336.06144 | 124.72152 | 79.8864 149.4504 | 91.5552 250.4304 | 91.5552 336.06144 | 107.712 336.06144 | 107.712 201.5112 | 120.2784 212.2824 | 107.712 336.06144 | 95.1456 336.06144 | 107.712 336.06144 | 95.1456 336.06144 |
| 2667.75696 | 1027.50516 | 1643.52804 | 1199.57508 | | 794.376 | 893.112 | 1687.488 | 13194.72 | 1611.192 | 1036.728 | 1086.096 | 731.544 | 20734.56 | 6417.84 |

— Mogul — Red & Bonita — American — Gold King 7



— Flow GPM — Zinc — Cadmium — Aluminum — Copper — Iron — Lead — Manganese — Nickel

Aluminum



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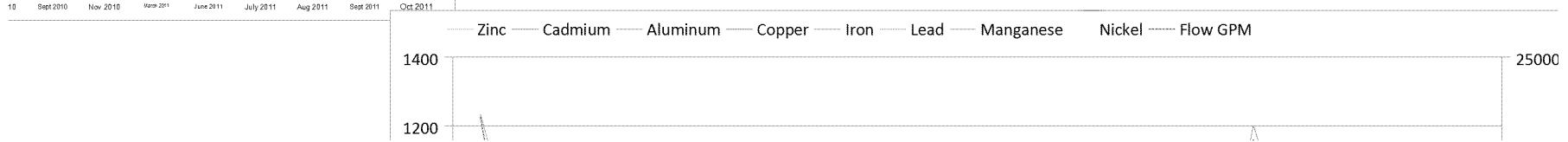
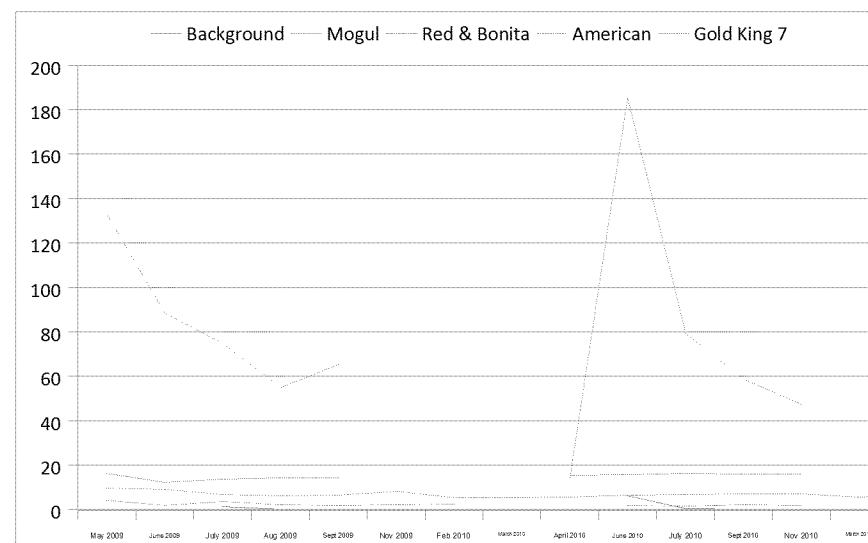
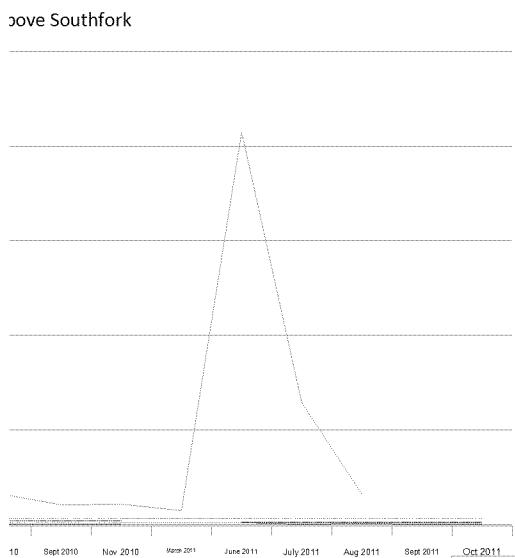
Aluminum

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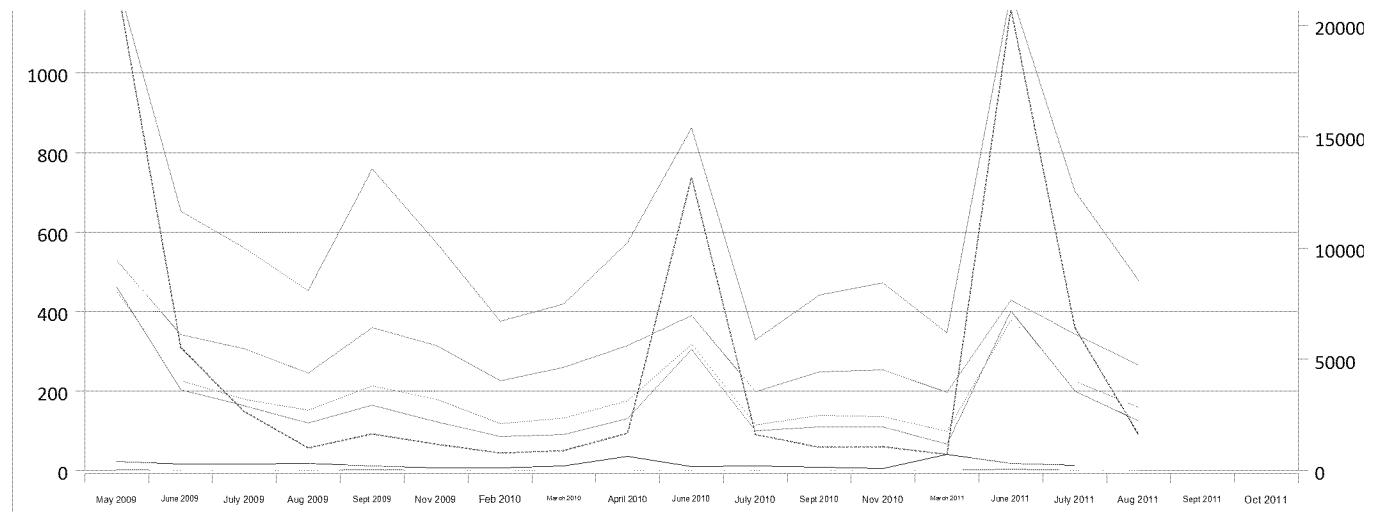
Aluminum

| Aug 2011 Flow cfs | Sept 2011 Flow cfs | Oct 2011 Flow cfs | Formula= ug/l * cfs * 0.00539377493629927 | | | | | | | | | | | |
|-------------------------|--------------------------|-------------------------|---|---------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|--------------------------------|----------------------------------|----------------------------------|---------------------------------|---------------------------------|--|
| | | | May 2009 AI Load Lbs/day | June 2009 AI Load Lbs/day | July 2009 AI Load Lbs/day | Aug 2009 AI Load Lbs/day | Sept 2009 AI Load Lbs/day | Nov 2009 AI Load Lbs/day | Feb 2010 AI Load Lbs/day | March 2010 AI Load Lbs/day | April 2010 AI Load Lbs/day | June 2010 AI Load Lbs/day | July 2010 AI Load Lbs/day | |
| 0.384 | 0.11 | 0.101 | | | 1.22 | 0.123 | 0.262 | | | | | 6.2 | 0.3 | |
| 0.13 | 0.095 | 0.095 | 4.02 | 1.96 | 3.46 | 2.07 | 1.90 | 2.07 | 2.4 | | | 1.9 | 1.7 | |
| 0.221 | 0.221 | 0.24 | | 9.74 | 9.20 | 6.85 | 6.16 | 6.58 | 8.20 | 5.3 | 5.5 | 5.6 | 6.6 | |
| 0.308 | 0.318 | 0.313 | | 133.0 | 88.4 | 74.7 | 55.0 | 65.2 | | | 14.1 | 185.4 | 79.0 | |
| 0.749 | 0.749 | 0.749 | | 16.3 | 12.3 | 13.7 | 14.1 | 14.2 | | | 15.4 | 15.7 | 16.4 | |
| 3.52 | | | 460.5 | 203.7 | 163.5 | 119.0 | 164.7 | 123.7 | 86.0 | 90.5 | 131.0 | 304.5 | 100.5 | |
| 172.3392 | 49.368 | 45.3288 | | | | | | | | | | | | |
| 58.344 | 42.636 | 42.636 | | | | | | | | | | | | |
| 99.1848 | 99.1848 | 107.712 | | | | | | | | | | | | |
| 138.2304 | 142.7184 | 140.4744 | | | | | | | | | | | | |
| 336.06144 | 336.06144 | 336.06144 | | | | | | | | | | | | |
| 1579.776 | | | | | | | | | | | | | | |

cove Southfork



Aluminum



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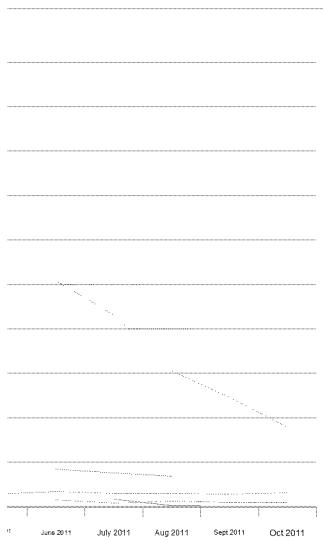
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| Sept 2010 AI Load Lbs/day | Nov 2010 AI Load Lbs/day | March 2011 AI Load Lbs/day | June 2011 AI Load Lbs/day | July 2011 AI Load Lbs/day | Aug 2011 AI Load Lbs/day | Sept 2011 AI Load Lbs/day | Oct 2011 AI Load Lbs/day |
|---------------------------------|--------------------------------|----------------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|
| 0.1 | | | | 3.2 | 0.4 | 0.1 | 0.1 |
| 2.0 | 1.7 | | 3.0 | 1.6 | 2.5 | 1.8 | 1.7 |
| 7.2 | 6.9 | 5.5 | 6.7 | 5.9 | 5.8 | 5.7 | 6.1 |
| 58.6 | 47.5 | | 101.5 | 86.0 | 61.0 | 49.2 | 35.5 |
| 15.8 | 16.1 | | 16.7 | 15.1 | 13.6 | | |
| 110.8 | 110.4 | 66.6 | 401.2 | 200.5 | 124.5 | | |



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Cadmium

ANIMAS RIVER 2009 - 2011 DATA SUMMARY - Cadmium

| Location Name | Station ID | May 2009 Cd-t µg/L | June 2009 Cd-t µg/L | July 2009 Cd-t µg/L | Aug 2009 Cd-t µg/L | Sept 2009 Cd-t µg/L | Nov 2009 Cd-t µg/L | Feb 2010 Cd-t µg/L | March 2010 Cd-t µg/L | April 2010 Cd-t µg/L | June 2010 Cd-t µg/L | July 2010 Cd-t µg/L |
|------------------------|---------------|--------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|----------------------------|----------------------------|---------------------------|---------------------------|
| Background | CC01F | | | 1 | 1.2 | 1.5 | | | | | 2.1 | 1 |
| Mogul Mine Adit | CC02D | 41.3 | 57.2 | 62.1 | 60.8 | 58.4 | 50.1 | 43.2 | 40.8 | 41.4 | 40.3 | 54.3 |
| Red and Bonita Adit | CC03C | | | | | | | | | | | |
| American Tunnel | CC19 | 2.6 | 2.5 | 2.5 | 2.5 | 2.5 | 2.3 | 2.3 | 2.3 | 2.4 | 2.3 | 2.1 |
| 7-Level Adit | CC06 | 111 | 59.9 | 61.4 | 66.2 | 64.4 | | 38.3 | 37.7 | 41.4 | 136 | 61.5 |
| Red and Bonita Culvert | CC03D CC18 | 33.3 | 34.8 | 34.9 | 34.6 | 35.9 | 37.7 | 37.5 | 37.6 | 37.3 | 40.4 | 35.5 |

Cadmium

| Sept 2010 Cd-t µg/L | Nov 2010 Cd-t µg/L | March 2011 Cd-t µg/L | June 2011 Cd-t µg/L | July 2011 Cd-t µg/L | Aug 2011 Cd-t µg/L | Sept 2011 Cd-t µg/L | Oct 2011 Cd-t µg/L | May 2009 Cd-d ug/L | June 2009 Cd-d µg/L | July 2009 Cd-d µg/L | Aug 2009 Cd-d µg/L | Sept 2009 Cd-d µg/L |
|---------------------------|--------------------------|----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------------|---------------------------|
| 1.6 57.6 | 3.1 54 | | | 1.2 36.8 | 1.1 50.1 | 2.6 60.4 | | | | 0.9 63 | 1.2 61.8 | 1.6 58.5 |
| 31.3 | 32.3 | | | 32.7 | 28 | 50.6 | | | | | | |
| 2.1 57.5 | 2.3 52.9 | 2 | 2.3 136 | 2.2 61.1 | 2.2 69.3 | 2.1 | 2.1 | 2.6 110 | 2.5 71.6 | 2.4 60.8 | 2.3 66.6 | 2.4 62.7 |
| 35.5 | 38 | 33 | 31.8 | 30 | 29 | 55.7 | 58.7 | 33.1 | 34.4 | 34.5 | 34.5 | 37.5 |

Cadmium

| Nov 2009 Cd-d µg/L | Feb 2010 Cd-d ug/L | March 2010 Cd-d µg/L | April 2010 Cd-d µg/L | June 2010 Cd-d µg/L | July 2010 Cd-d µg/L | Sept 2010 Cd-d µg/L | Nov 2010 Cd-d µg/L | March 2011 Cd-d µg/L | June 2011 Cd-d µg/L | July 2011 Cd-d µg/L | Aug 2011 Cd-d µg/L | Sept 2011 Cd-d µg/L | Oct 2011 Cd-d µg/L | | | |
|--------------------------|--------------------------|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|--------------------------|----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|-------------|-------------|-----------|
| 52.5 | 43.5 | 39.3 | 41 | 38.9 | 1.9 | 1 56.3 | 1.7 55.7 | 3.2 54.2 | | | 1.1 37.5 | 1.1 51.7 | 1.1 63.6 | 1.1 60.3 | 2.7 51.4 | |
| 2.4 | 2.2 | 2.3 | 2.5 | 2.2 | 2.2 | 2 63.2 | 2.5 56.9 | 1.9 53.3 | | | 2 138 | 2.2 62.2 | 2.2 72.2 | 2.1 72.2 | 2 60.3 | 2 58.8 |
| 37.3 | 38.1 | 36.5 | 40.9 | 39.3 | 37.2 | 34.1 | 38 | 34 | 33.2 | 28.6 | 29.6 | | | | | |

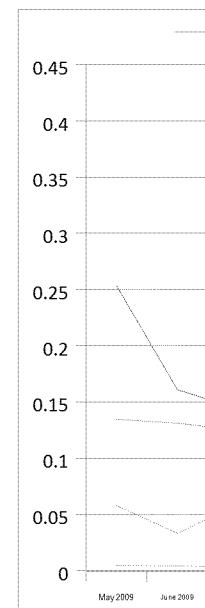
Cadmium

| May 2009 Flow cfs | June 2009 Flow cfs | July 2009 Flow cfs | Aug 2009 Flow cfs | Sept 2009 Flow cfs | Nov 2009 Flow cfs | Feb 2010 Flow cfs | March 2010 Flow cfs | April 2010 Flow cfs | June 2010 Flow cfs | July 2010 Flow cfs | Sept 2010 Flow cfs | Nov 2010 Flow cfs |
|-------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|-------------------------|---------------------------|---------------------------|--------------------------|--------------------------|--------------------------|-------------------------|
| 0.259 | 0.108 | 1.11 0.178 | 0.101 0.109 | 0.200 0.109 | 0.123 | 0.154 | | | 4.61 0.138 | 0.389 0.095 | 0.075 0.109 | |
| 0.318 | 0.309 | 0.231 | 0.212 | 0.221 | 0.278 | 0.178 | 0.204 | 0.204 | 0.24 | 0.24 | 0.268 | 0.24 |
| 0.423 | 0.498 | 0.436 | 0.358 | 0.562 | | | | 0.333 | 0.558 | 0.485 | 0.449 | 0.473 |
| 0.749 | 0.699 | 0.664 | 0.676 | 0.749 | | | | 0.403 | 0.488 | 0.517 | 0.541 | 0.46 |

Cadmium

Values are formulas!

| March 2011 Flow cfs | June 2011 Flow cfs | July 2011 Flow cfs | Aug 2011 Flow cfs | Sept 2011 Flow cfs | Oct 2011 Flow cfs | Formula= ug/l * cfs * 0.00539377493629927 | | | | | | Formula= ug/l * cfs * 0.00 | |
|---------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|---|---------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|--------------------------------|-----|
| | | | | | | May 2009 Cd Load Lbs/day | June 2009 Cd Load Lbs/day | July 2009 Cd Load Lbs/day | Aug 2009 Cd Load Lbs/day | Sept 2009 Cd Load Lbs/day | Nov 2009 Cd Load Lbs/day | Feb 2010 Cd Load Lbs/day | |
| | | | 3.6 | 0.384 | 0.11 | 0.101 | | | 0.01 | 0.001 | 0.002 | | |
| 0.212 | 0.088 | 0.13 | | 0.095 | 0.095 | | 0.06 | 0.03 | 0.06 | 0.04 | 0.03 | 0.03 | 0.0 |
| 0.212 | 0.24 | 0.212 | 0.221 | 0.221 | 0.24 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0 |
| 0.328 | 0.298 | 0.308 | | 0.318 | 0.313 | | 0.3 | 0.2 | 0.1 | 0.1 | 0.2 | | |
| 0.724 | 0.676 | 0.7 | | | | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | |
| | | | | | | 1.42 | 0.69 | 0.51 | 0.37 | 0.54 | 0.39 | 0.27 | |

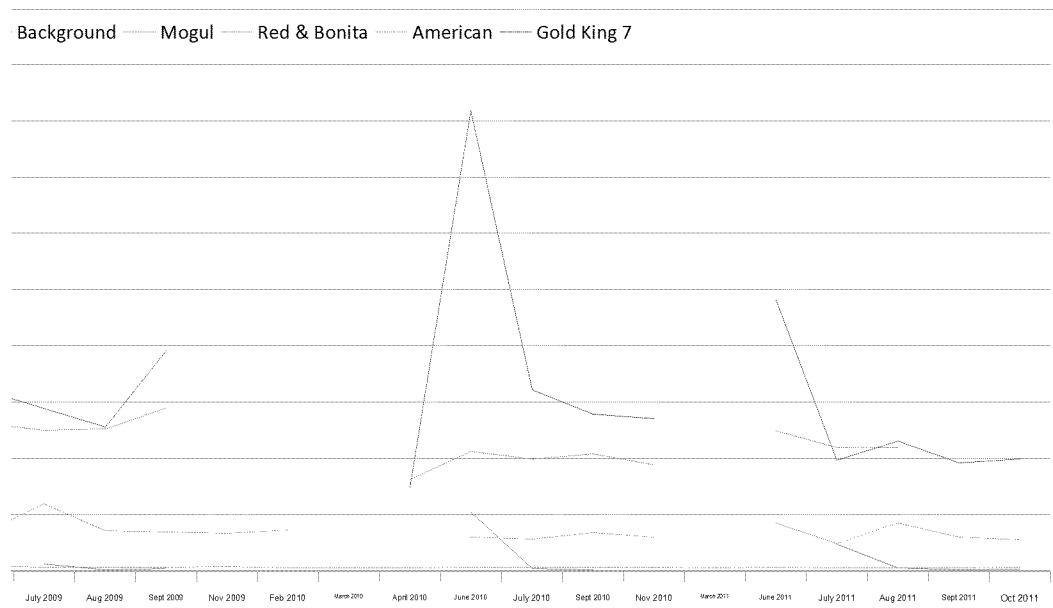


Cadmium

539377493629927

| March 2010 Cd Load Lbs/day | April 2010 Cd Load Lbs/day | June 2010 Cd Load Lbs/day | July 2010 Cd Load Lbs/day | Sept 2010 Cd Load Lbs/day | Nov 2010 Cd Load Lbs/day | March 2011 Cd Load Lbs/day | June 2011 Cd Load Lbs/day | July 2011 Cd Load Lbs/day | Aug 2011 Cd Load Lbs/day | Sept 2011 Cd Load Lbs/day | Oct 2011 Cd Load Lbs/day |
|----------------------------------|----------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|----------------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|
| | | 0.1 | 0.002 | 0.001 | | | | 0.02 | 0.002 | 0.00 | 0.001 |
| | | 0.03 | 0.03 | 0.03 | 0.03 | | 0.04 | 0.02 | 0.04 | 0.03 | 0.03 |
| 0.0 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| 0.1 | 0.1 | 0.4 | 0.2 | 0.1 | 0.1 | | 0.241 | 0.098 | 0.115 | 0.096 | 0.099 |
| 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | 0.1 | 0.1 | 0.1 | | |
| 0.30 | 0.41 | 1.08 | 0.32 | 0.33 | 0.35 | 0.22 | 1.27 | 0.62 | 0.39 | | |

Background — Mogul — Red & Bonita — American — Gold King 7



Copper

ANIMAS RIVER 2009 - 2011 DATA SUMMARY - Copper

| Location Name | Station ID | May 2009 Cu-t µg/L | June 2009 Cu-t µg/L | July 2009 Cu-t µg/L | Aug 2009 Cu-t µg/L | Sept 2009 Cu-t µg/L | Nov 2009 Cu-t µg/L | Feb 2010 Cu-t µg/L | March 2010 Cu-t µg/L | April 2010 Cu-t µg/L | June 2010 Cu-t µg/L | July 2010 Cu-t µg/L |
|------------------------|------------|--------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|----------------------------|----------------------------|---------------------------|---------------------------|
| Background | CC01F | | | 25.4 | 25.6 | 28.3 | | | | | 44.2 | 24.4 |
| Mogul Mine Adit | CC02D | 33.9 | 50.4 | 45.5 | 31.4 | 30.9 | 21.6 | 16.9 | 17.9 | 19.7 | 22.6 | 31.6 |
| Red and Bonita Adit | CC03C | | | | | | | | | | | |
| American Tunnel | CC19 | 7.9 | 7 | 6.2 | 6.3 | 6.6 | 6.5 | 5.9 | 8.9 | 6.6 | <10.0 | <10.0 |
| 7-Level Adit | CC06 | 10600 | 5680 | 5710 | 7150 | 5630 | | 2430 | 2410 | 4060 | 12300 | 5360 |
| Red and Bonita Culvert | CC03D | 50.6 | 4.5 | 6.2 | 6.9 | 4.1 | 8.6 | 47.1 | 14.2 | 18 | 14.3 | <10.0 |
| | CC18 | | | | | | | | | | | |

Copper

| Sept 2010 Cu-t µg/L | Nov 2010 Cu-t µg/L | March 2011 Cu-t µg/L | June 2011 Cu-t µg/L | July 2011 Cu-t µg/L | Aug 2011 Cu-t µg/L | Sept 2011 Cu-t µg/L | Oct 2011 Cu-t µg/L | May 2009 Cu-d ug/L | June 2009 Cu-d µg/L | July 2009 Cu-d µg/L | Aug 2009 Cu-d µg/L | Sept 2009 Cu-d µg/L |
|---------------------------|--------------------------|----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------------|---------------------------|
| 34.4 | 46.4 | | | 26.1 | 23.5 | 20.4 | 36.5 | | | 19.7 | 20.4 | 18 |
| 23.8 | 14.7 | | 24.6 | 35.2 | 29.9 | 29.5 | <20.0 | 32.5 | 54.2 | 44.1 | 31.7 | 29.1 |
| <4.0 | <4.0 | | | <20.0 | <20.0 | <20.0 | 29.6 | | | | | |
| <4.0 | <4.0 | <10.0 | <10.0 | <20.0 | <20.0 | <20.0 | <20.0 | 7.3 | 6.4 | 6.1 | 6 | 6.6 |
| 5480 | 4020 | | 12400 | 9930 | 8330 | 6420 | 5220 | 10100 | 5520 | 5520 | 7310 | 5440 |
| 17.8 | 11.3 | | 16.7 | 38.2<20.0 | <20.0 | | | 41.1 | <3.0 | 3.5 | 4.5 | <3.0 |

Copper

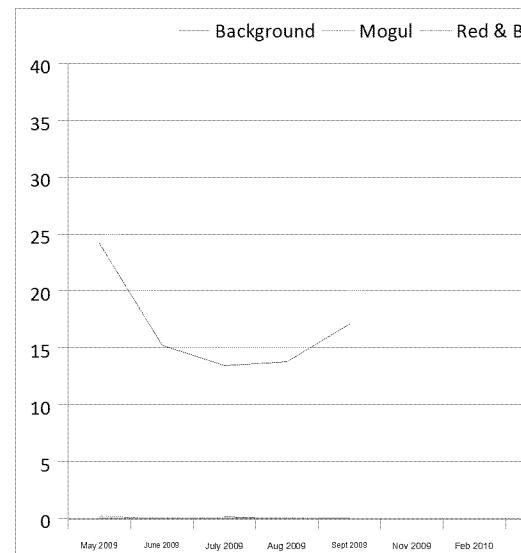
| Nov 2009 Cu-d µg/L | Feb 2010 Cu-d ug/L | March 2010 Cu-d µg/L | April 2010 Cu-d µg/L | June 2010 Cu-d µg/L | July 2010 Cu-d µg/L | Sept 2010 Cu-d µg/L | Nov 2010 Cu-d µg/L | March 2011 Cu-d µg/L | June 2011 Cu-d µg/L | July 2011 Cu-d µg/L | Aug 2011 Cu-d µg/L | Sept 2011 Cu-d µg/L | Oct 2011 Cu-d µg/L | |
|--------------------------|--------------------------|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|--------------------------|----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|---------------|
| 24 | 16.2 | 18.3 | 19.9 | 27.2 22.3 | 17.1 32.2 | 19.8 22.1 | 26.8 14.5 | - | - | <20.0 24.3 | <20.0 33.3 | <20.0 30.8 | <20.0 30.4 | 22.9 <20.0 |
| 5.4 | 5.7 | 8.3 | 6.2 | <10.0 | <10.0 | <4.0 | <4.0 | <10.0 | <10.0 | <20.0 | <20.0 | <20.0 | 29.9 | |
| 8.9 | 2450 | 2620 | 2690 | 12100 | 4970 | 5540 | 3900 | - | 11900 | 9490 | 8370 | 6350 | 4950 | |
| | | | | 11.4 | <10.0 | 13.6 | <4.0 | 11.5 | 30.3 | <20.0 | <20.0 | | | |
| | | | | | | | | | | | | | | |

Copper

| May 2009 Flow cfs | June 2009 Flow cfs | July 2009 Flow cfs | Aug 2009 Flow cfs | Sept 2009 Flow cfs | Nov 2009 Flow cfs | Feb 2010 Flow cfs | March 2010 Flow cfs | April 2010 Flow cfs | June 2010 Flow cfs | July 2010 Flow cfs | Sept 2010 Flow cfs | Nov 2010 Flow cfs |
|-------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|-------------------------|---------------------------|---------------------------|--------------------------|--------------------------|--------------------------|-------------------------|
| 0.259 | 0.108 | 0.178 | 1.11 0.101 | 0.200 0.109 | 0.123 | 0.154 | | | 4.61 0.138 | 0.389 0.095 | 0.075 0.109 | 0.102 |
| 0.318 | 0.309 | 0.231 | 0.212 | 0.221 | 0.278 | 0.178 | 0.204 | 0.204 | 0.24 | 0.24 | 0.268 | 0.24 |
| 0.423 | 0.498 | 0.436 | 0.358 | 0.562 | | | | 0.333 | 0.558 | 0.485 | 0.449 | 0.473 |
| 0.749 | 0.699 | 0.664 | 0.676 | 0.749 | | | | 0.403 | 0.488 | 0.517 | 0.541 | 0.46 |

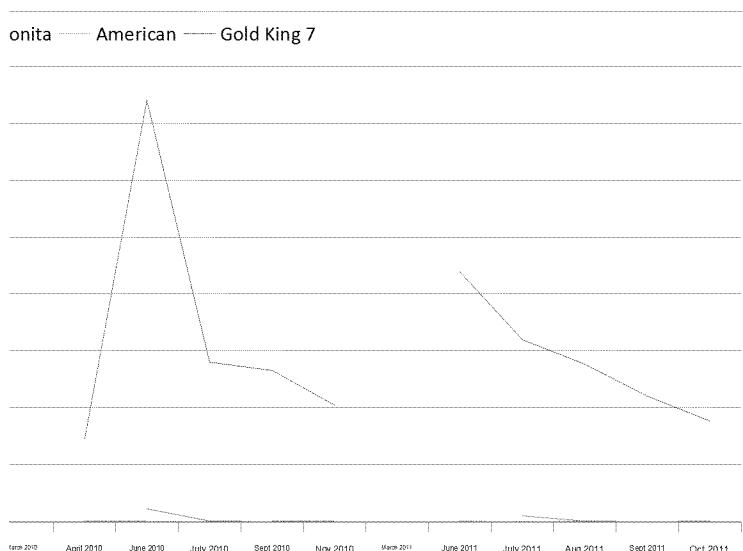
Copper

| | | | | | | | | | | | | Formula= ug/l * cfs * 0.00539377493629927 | | | | | | |
|---------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|-------|--------------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|---|--------------------------------|--|--|--|--|--|
| March 2011 Flow cfs | June 2011 Flow cfs | July 2011 Flow cfs | Aug 2011 Flow cfs | Sept 2011 Flow cfs | Oct 2011 Flow cfs | | May 2009 Cu Load Lbs/day | June 2009 Cu Load Lbs/day | July 2009 Cu Load Lbs/day | Aug 2009 Cu Load Lbs/day | Sept 2009 Cu Load Lbs/day | Nov 2009 Cu Load Lbs/day | Feb 2010 Cu Load Lbs/day | | | | | |
| | | | 3.6 | 0.384 | 0.11 | 0.101 | | | 0.15 | 0.014 | 0.031 | | | | | | | |
| 0.212 | 0.088 | 0.13 | 0.095 | 0.095 | | | 0.05 | 0.03 | 0.04 | 0.02 | 0.02 | 0.01 | 0.0 | | | | | |
| 0.212 | 0.24 | 0.212 | 0.221 | 0.221 | 0.24 | | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.0 | | | | | |
| 0.328 | 0.298 | 0.308 | 0.318 | 0.313 | | | 24.2 | 15.3 | 13.4 | 13.8 | 17.1 | | | | | | | |
| 0.724 | 0.676 | 0.7 | | | | | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | |
| | | | | | | | 22.62 | 16.54 | 17.29 | 17.70 | 12.30 | 7.16 | 6.72 | | | | | |



Copper

| March 2010 Cu Load Lbs/day | April 2010 Cu Load Lbs/day | June 2010 Cu Load Lbs/day | July 2010 Cu Load Lbs/day | Sept 2010 Cu Load Lbs/day | Nov 2010 Cu Load Lbs/day | March 2011 Cu Load Lbs/day | June 2011 Cu Load Lbs/day | July 2011 Cu Load Lbs/day | Aug 2011 Cu Load Lbs/day | Sept 2011 Cu Load Lbs/day | Oct 2011 Cu Load Lbs/day |
|----------------------------------|----------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|----------------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|
| | | | | 1.1 0.02 | 0.1 0.02 | 0.01 0.01 | | 0.5 0.03 | 0.05 0.02 | 0.01 0.02 | 0.02 |
| 0.0 | 0.0 | | | | | | | | | | |
| | 7.3 0.04 | 37.0 0.04 | 14.0 0.1 | 13.3 0.03 | 10.3 0.1 | | 21.9 0.1 | 16.0 13.8 | 13.8 11.0 | 11.0 8.8 | |
| 11.42 | 36.63 | 9.53 | 11.61 | 8.95 | 4.65 | 40.62 | 18.90 | 13.67 | | | |



Iron

| | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 86700 | 76700 | 87700 | 88000 | 96700 | 96100 | 82300 | 93500 | 97600 | 89400 | 79900 | 81600 | 96500 | 87400 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

88000| 84200| 78800|

Iron

80500 81200 85800 85800 94100 91600 83100 85600

Iron

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 87100 | 83100 | 84000 | 86100 | 92700 | 88800 | 82800 | 76900 | 82300 | 0.749 | 0.699 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

Iron

0.664 0.676 0.749 0.403 0.488 0.517 0.541 0.46 0.724 0.676

0.7

Iron

| | | | | |
|---------|--------|--------|--------|--------|
| 350.2 | 289.2 | 314.1 | 320.8 | 390.6 |
| 1234.27 | 652.82 | 561.08 | 453.20 | 758.49 |
| | | | | 573.79 |

Lead

ANIMAS RIVER 2009 - 2011 DATA SUMMARY - Lead

| Location Name | Station ID | May 2009 Pb-t µg/L | June 2009 Pb-t µg/L | July 2009 Pb-t µg/L | Aug 2009 Pb-t µg/L | Sept 2009 Pb-t µg/L | Nov 2009 Pb-t µg/L | Feb 2010 Pb-t µg/L | March 2010 Pb-t µg/L | April 2010 Pb-t µg/L | June 2010 Pb-t µg/L | July 2010 Pb-t µg/L |
|------------------------|------------|--------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|----------------------------|----------------------------|---------------------------|---------------------------|
| Background | CC01F | | | | | | | | | | 11.5 | 2.5 |
| Mogul Mine Adit | CC02D | 147 | 174 | 202 | 212 | 238 | 213 | 184 | 189 | 181 | 168 | 193 |
| Red and Bonita Adit | CC03C | | | | | | | | | | | |
| American Tunnel | CC19 | 4.7 | 3.9 | 3.3 | 3.2 | 3.6 | 3.3 | 3.4 | 5.4 | 4.1 | 4.2 | 4 |
| 7-Level Adit | CC06 | 24.7 | 18.1 | 21.5 | 24.9 | 16.3 | | 1.9 | 1.8 | 1.8 | 21.3 | 19.6 |
| Red and Bonita Culvert | CC03D | 71.2 | 39.5 | 36.5 | 34 | 41.4 | 37.2 | 47.2 | 58.7 | 55.3 | 57.7 | 40 |
| | CC18 | | | | | | | | | | | |

Lead

| Sept 2010 Pb-t µg/L | Nov 2010 Pb-t µg/L | March 2011 Pb-t µg/L | June 2011 Pb-t µg/L | July 2011 Pb-t µg/L | Aug 2011 Pb-t µg/L | Sept 2011 Pb-t µg/L | Oct 2011 Pb-t µg/L | May 2009 Pb-d ug/L | June 2009 Pb-d µg/L | July 2009 Pb-d µg/L | Aug 2009 Pb-d µg/L | Sept 2009 Pb-d µg/L |
|---------------------------|--------------------------|----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------------|---------------------------|
| 1.8 232 | 1.4 231 | | | 7.1 170 | 1.9 189 | 1.6 229 | 1.5 235 | 142 | 160 | 2.3 207 | <1.0 227 | <1.0 241 |
| 86 | 88.1 | | | 84.2 3 | 163 3.8 | 101 3.2 | 134 2.9 | | | | | |
| 3.6 21.8 | 3 6.9 | | | 23.6 76.8 | 19.1 46.2 | 29.1 36.7 | 23.2 2.7 | 2.3 25.3 | 1.9 19.7 | 2 22.6 | 1.8 26.1 | 1.9 14.6 |
| 38.4 | 60.7 | | | | | | | 8.1 | 4.1 | 7.6 | 9.1 | 15.4 |

Lead

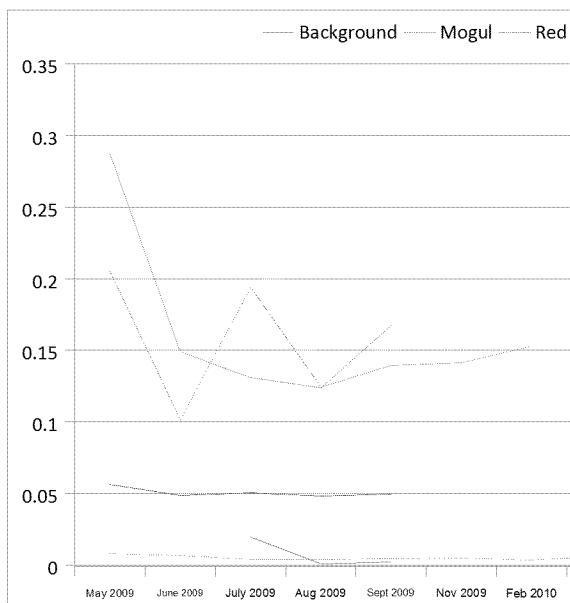
| Nov 2009 Pb-d µg/L | Feb 2010 Pb-d ug/L | March 2010 Pb-d µg/L | April 2010 Pb-d µg/L | June 2010 Pb-d µg/L | July 2010 Pb-d µg/L | Sept 2010 Pb-d µg/L | Nov 2010 Pb-d µg/L | March 2011 Pb-d µg/L | June 2011 Pb-d µg/L | July 2011 Pb-d µg/L | Aug 2011 Pb-d µg/L | Sept 2011 Pb-d µg/L | Oct 2011 Pb-d µg/L |
|--------------------------|--------------------------|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|--------------------------|----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|
| 219 | 189 | 182 | 178 | 153 | <1.0 | 1.2 | <0.2 | <0.2 | | | 3.5<1.0 | <1.0 | <1.0 |
| 1.7 | 1.4 | 1.8 | 2 | 2.2 | 2.5 | 2.5 | 1.5 | 1.3 | 2 | 1.2 | 1.7 | 1.3 | 1.3 |
| 4.6 | 4.3 | 3.6 | 2.1 | 9 | 10.7 | 6.2 | 7.9 | 3.9 | 7.3 | 5.3 | 6.9 | 23.9 | 15 |
| 1 | 1 | <1.0 | 20.7 | | 18.9 | 21.1 | 6.5 | | 23.7 | 18.1 | 29 | | |

Lead

| May 2009 Flow cfs | June 2009 Flow cfs | July 2009 Flow cfs | Aug 2009 Flow cfs | Sept 2009 Flow cfs | Nov 2009 Flow cfs | Feb 2010 Flow cfs | March 2010 Flow cfs | April 2010 Flow cfs | June 2010 Flow cfs | July 2010 Flow cfs | Sept 2010 Flow cfs | Nov 2010 Flow cfs |
|-------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|-------------------------|---------------------------|---------------------------|--------------------------|--------------------------|--------------------------|-------------------------|
| 0.259 | 0.108 | 0.178 | 0.101 0.109 | 0.200 0.109 | 0.123 | 0.154 | | | 4.61 0.138 | 0.389 0.095 | 0.075 0.109 | 0.102 |
| 0.318 | 0.309 | 0.231 | 0.212 | 0.221 | 0.278 | 0.178 | 0.204 | 0.204 | 0.24 | 0.24 | 0.268 | 0.24 |
| 0.423 | 0.498 | 0.436 | 0.358 | 0.562 | | | | 0.333 | 0.558 | 0.485 | 0.449 | 0.473 |
| 0.749 | 0.699 | 0.664 | 0.676 | 0.749 | | | | 0.403 | 0.488 | 0.517 | 0.541 | 0.46 |

Lead

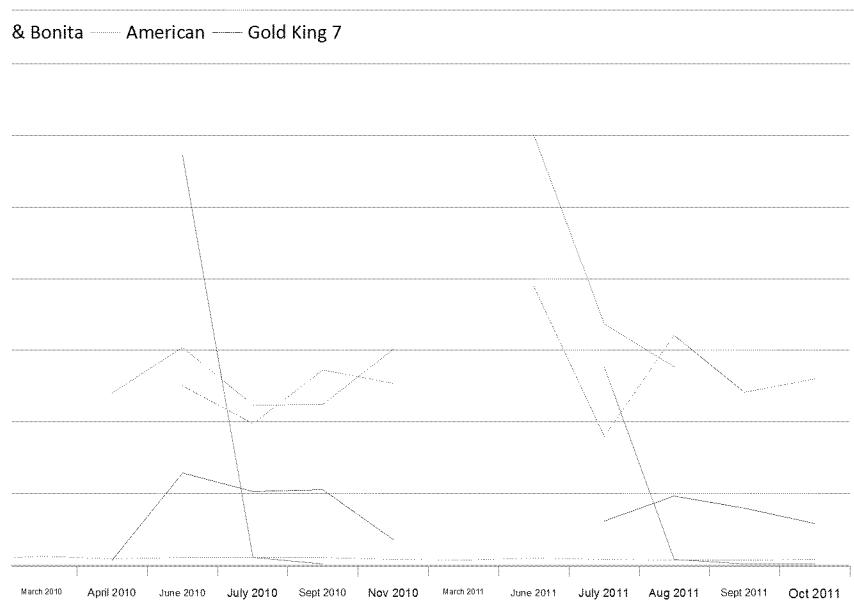
| March 2011 Flow cfs | June 2011 Flow cfs | July 2011 Flow cfs | Aug 2011 Flow cfs | Sept 2011 Flow cfs | Oct 2011 Flow cfs | Formula= ug/l * cfs * 0.00539377493629927 | | | | | | | |
|---------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|---|---------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|--------------------------------|--|
| | | | | | | May 2009 Pb Load Lbs/day | June 2009 Pb Load Lbs/day | July 2009 Pb Load Lbs/day | Aug 2009 Pb Load Lbs/day | Sept 2009 Pb Load Lbs/day | Nov 2009 Pb Load Lbs/day | Feb 2010 Pb Load Lbs/day | |
| 3.6 | 0.384 | 0.11 | 0.101 | | | 0.21 | 0.10 | 0.19 | 0.12 | 0.001 | 0.002 | | |
| 0.212 | 0.088 | 0.13 | 0.095 | 0.095 | | 0.01 | 0.01 | 0.00 | 0.00 | 0.14 | 0.14 | 0.2 | |
| 0.212 | 0.24 | 0.212 | 0.221 | 0.221 | 0.24 | 0.1 | 0.0 | 0.1 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 0.328 | 0.298 | 0.308 | 0.318 | 0.313 | | 0.3 | 0.1 | 0.1 | 0.1 | 0.2 | | | |
| 0.724 | 0.676 | 0.7 | | | | 2.50 | 0.52 | 0.34 | 0.21 | 2.05 | 0.27 | 0.22 | |



Lead

| March 2010 Pb Load Lbs/day | April 2010 Pb Load Lbs/day | June 2010 Pb Load Lbs/day | July 2010 Pb Load Lbs/day | Sept 2010 Pb Load Lbs/day | Nov 2010 Pb Load Lbs/day | March 2011 Pb Load Lbs/day | June 2011 Pb Load Lbs/day | July 2011 Pb Load Lbs/day | Aug 2011 Pb Load Lbs/day | Sept 2011 Pb Load Lbs/day | Oct 2011 Pb Load Lbs/day |
|----------------------------------|----------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|----------------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|
| | | | | | | | | | | | |
| | | 0.3 | 0.01 | 0.001 | | | | 0.1 | 0.004 | 0.001 | 0.001 |
| | | 0.1 | 0.1 | 0.1 | 0.1 | | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 |
| 0.0 | 0.0 | 0.01 | 0.01 | 0.01 | 0.004 | 0.003 | 0.005 | 0.004 | 0.003 | 0.003 | 0.004 |
| | | 0.0 | 0.1 | 0.1 | 0.02 | | | 0.03 | 0.05 | 0.04 | 0.03 |
| | | 0.1 | 0.2 | 0.1 | 0.1 | 0.2 | 0.3 | 0.2 | 0.1 | | |
| 0.29 | 0.36 | 1.52 | 0.25 | 0.23 | 0.27 | 0.23 | 3.49 | 0.97 | 0.31 | | |

& Bonita — American — Gold King 7



Manganese

ANIMAS RIVER 2009 - 2011 DATA SUMMARY - Manganese

| Location Name | Station ID | May 2009 Mn-t µg/L | June 2009 Mn-t µg/L | July 2009 Mn-t µg/L | Aug 2009 Mn-t µg/L | Sept 2009 Mn-t µg/L | Nov 2009 Mn-t µg/L | Feb 2010 Mn-t µg/L | March 2010 Mn-t µg/L | April 2010 Mn-t µg/L | June 2010 Mn-t µg/L | July 2010 Mn-t µg/L |
|------------------------|--------------|--------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|----------------------------|----------------------------|---------------------------|---------------------------|
| Background | CC01F | | | 48 | 36.1 | 66 | | | | | 157 | 42 |
| Mogul Mine Adit | CC02D | 27400 | 26200 | 29300 | 30200 | 31100 | 32100 | 29400 | 30800 | 29200 | 25400 | 29200 |
| Red and Bonita Adit | CC03C | | | | | | | | | | | |
| American Tunnel | CC19 | 49400 | 46600 | 49800 | 52000 | 50700 | 52000 | 46400 | 48300 | 50400 | 47800 | 47800 |
| 7-Level Adit | CC06 | 30200 | 28700 | 32200 | 34400 | 34900 | | 28000 | 28400 | 26700 | 29500 | 29500 |
| Red and Bonita Culvert | CC03D | 33200 | 27900 | 32300 | 32500 | 34600 | 35700 | 34100 | 35100 | 36300 | 33200 | 31500 |
| | CC18 | | | | | | | | | | | |

Manganese

| Sept 2010 Mn-t µg/L | Nov 2010 Mn-t µg/L | March 2011 Mn-t µg/L | June 2011 Mn-t µg/L | July 2011 Mn-t µg/L | Aug 2011 Mn-t µg/L | Sept 2011 Mn-t µg/L | Oct 2011 Mn-t µg/L | May 2009 Mn-d ug/L | June 2009 Mn-d µg/L | July 2009 Mn-d µg/L | Aug 2009 Mn-d µg/L | Sept 2009 Mn-d µg/L |
|---------------------------|--------------------------|----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------------|---------------------------|
| 72.1 | 132 | | | 75.8 | 45.4 | 50 | 121 | | | 47.0 | 35.6 | 66.1 |
| 31300 | 31800 | | 25800 | 27500 | 29100 | 30100 | 30300 | 26700 | 24200 | 28200 | 30300 | 31600 |
| 35900 | 33800 | | | 31100 | 29800 | 31200 | 32300 | | | | | |
| 47400 | 50400 | 48800 | 48400 | 49500 | 47000 | 46900 | 49000 | 48900 | 47200 | 49200 | 48800 | 49200 |
| 29300 | 31000 | | 27000 | 29500 | 31600 | 34400 | 33500 | 30200 | 27700 | 31800 | 34200 | 33900 |
| 32700 | 35300 | 32900 | 31800 | 31400 | 29900 | | | 32300 | 30800 | 32100 | 32700 | 33700 |

Manganese

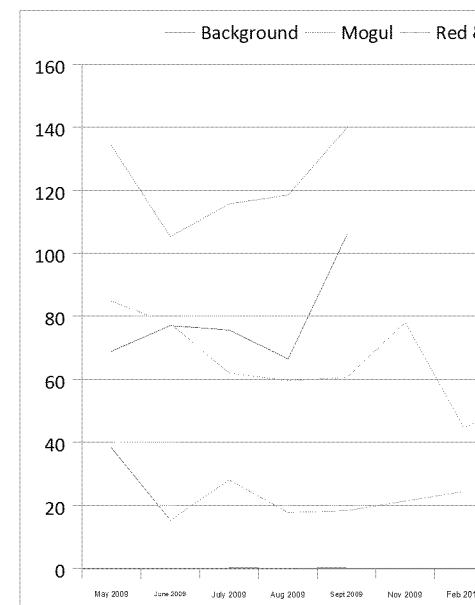
| Nov 2009 Mn-d µg/L | Feb 2010 Mn-d ug/L | March 2010 Mn-d µg/L | April 2010 Mn-d µg/L | June 2010 Mn-d µg/L | July 2010 Mn-d µg/L | Sept 2010 Mn-d µg/L | Nov 2010 Mn-d µg/L | March 2011 Mn-d µg/L | June 2011 Mn-d µg/L | July 2011 Mn-d µg/L | Aug 2011 Mn-d µg/L | Sept 2011 Mn-d µg/L | Oct 2011 Mn-d µg/L |
|--------------------------|--------------------------|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|--------------------------|----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|
| | | | | 148 | 40.5 | 73 | 125 | | | 73.6 | 45.1 | 55.9 | 120 |
| 31000 | 31100 | 29100 | 29100 | 24100 | 28500 | 33100 | 32900 | | 26000 | 27200 | 29100 | 29900 | 30700 |
| | | | | | 36200 | 35000 | | | | 30600 | 31400 | 30800 | 31500 |
| 44900 | 49500 | 50300 | 49700 | 44500 | 49900 | 51400 | 49100 | 47500 | 47700 | 47800 | 47600 | 47200 | 46500 |
| | 26500 | 27400 | 26200 | 27100 | 29600 | 31700 | 30700 | | 28100 | 28900 | 30900 | 33600 | 32000 |
| 35000 | 35200 | 32900 | 32500 | 31700 | 32900 | 35700 | 34100 | 34400 | 31700 | 30400 | 30500 | | |

Manganese

| May 2009 Flow cfs | June 2009 Flow cfs | July 2009 Flow cfs | Aug 2009 Flow cfs | Sept 2009 Flow cfs | Nov 2009 Flow cfs | Feb 2010 Flow cfs | March 2010 Flow cfs | April 2010 Flow cfs | June 2010 Flow cfs | July 2010 Flow cfs | Sept 2010 Flow cfs | Nov 2010 Flow cfs |
|-------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|-------------------------|---------------------------|---------------------------|--------------------------|--------------------------|--------------------------|-------------------------|
| 0.259 | 0.108 | 0.178 | 0.109 | 0.109 | 0.123 | 0.154 | | | 4.61 | 0.389 | 0.075 | |
| 0.318 | 0.309 | 0.231 | 0.212 | 0.221 | 0.278 | 0.178 | 0.204 | 0.204 | 0.24 | 0.24 | 0.268 | 0.24 |
| 0.423 | 0.498 | 0.436 | 0.358 | 0.562 | | | | 0.333 | 0.558 | 0.485 | 0.449 | 0.473 |
| 0.749 | 0.699 | 0.664 | 0.676 | 0.749 | | | | 0.403 | 0.488 | 0.517 | 0.541 | 0.46 |

Manganese

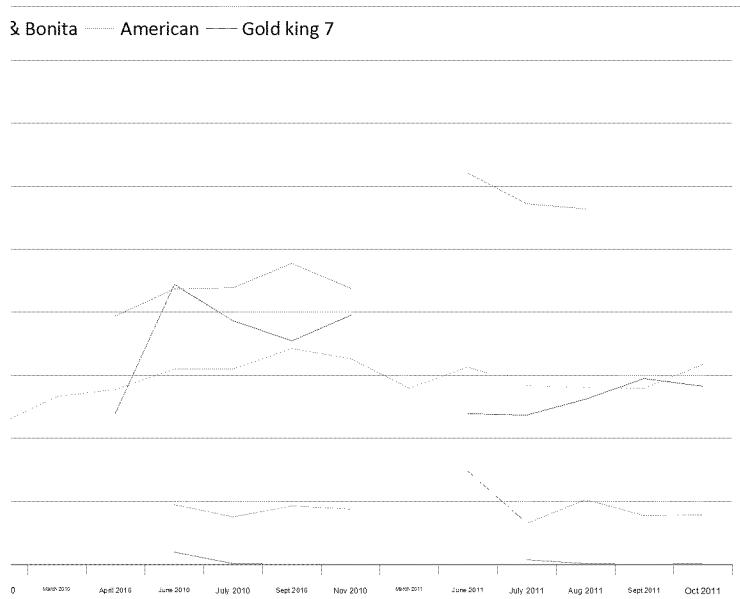
| March 2011 Flow cfs | June 2011 Flow cfs | July 2011 Flow cfs | Aug 2011 Flow cfs | Sept 2011 Flow cfs | Oct 2011 Flow cfs | Formula= ug/l * cfs * 0.00539377493629927 | | | | | | | |
|---------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|---|---------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|--------------------------------|--|
| | | | | | | May 2009 Mn Load Lbs/day | June 2009 Mn Load Lbs/day | July 2009 Mn Load Lbs/day | Aug 2009 Mn Load Lbs/day | Sept 2009 Mn Load Lbs/day | Nov 2009 Mn Load Lbs/day | Feb 2010 Mn Load Lbs/day | |
| 3.6 0.212 | 0.384 0.088 | 0.13 0.212 | 0.11 0.221 | 0.095 0.221 | 0.101 0.24 | 38.22 | 15.26 | 28.11 | 0.29 17.69 | 0.020 18.22 | 0.071 21.28 | 24.4 | |
| 0.212 0.328 | 0.24 0.298 | 0.212 0.308 | 0.221 0.318 | 0.24 0.313 | | 84.73 68.9 134.1 | 77.67 77.1 105.2 | 61.91 75.7 115.7 | 59.57 66.4 118.5 | 60.55 105.9 139.7 | 77.94 139.7 | 44.5 | |
| 0.724 | 0.676 | 0.7 | | | | 528.97 | 342.33 | 306.51 | 245.74 | 359.49 | 314.29 | 226.26 | |



Manganese

| March 2010 | April 2010 | June 2010 | July 2010 | Sept 2010 | Nov 2010 | March 2011 | June 2011 | July 2011 | Aug 2011 | Sept 2011 | Oct 2011 | |
|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------|
| Mn Load Lbs/day | |
| | | | | 3.9 | 0.1 | 0.0 | 0.0 | | 1.5 | 0.1 | 0.0 | 0.1 |
| | | | | 18.9 | 15.0 | 18.4 | 17.5 | | 29.5 | 13.1 | 20.4 | 15.5 |
| | | | | | | 0.0 | 0.0 | | | | | |
| 53.1 | 55.5 | 61.9 | 61.9 | 68.5 | 65.2 | 55.8 | 62.7 | 56.6 | 56.0 | 55.9 | 63.4 | |
| 48.0 | | 88.8 | 77.2 | 71.0 | 79.1 | | 47.8 | 47.4 | 52.5 | 59.0 | 56.6 | |
| 78.9 | | 87.4 | 87.8 | 95.4 | 87.6 | | 124.2 | 114.5 | 112.9 | | | |
| 259.75 | 314.35 | 390.10 | 199.45 | 247.95 | 253.23 | 196.94 | 428.61 | 344.00 | 263.91 | | | |

& Bonita — American — Gold king 7



Nickel

ANIMAS RIVER 2009 - 2010 DATA SUMMARY - Nickel

| Location Name | Station ID | May 2009 Ni-t µg/L | June 2009 Ni-t µg/L | July 2009 Ni-t µg/L | Aug 2009 Ni-t µg/L | Sept 2009 Ni-t µg/L | Nov 2009 Ni-t µg/L | Feb 2010 Ni-t µg/L | March 2010 Ni-t µg/L | April 2010 Ni-t µg/L | June 2010 Ni-t µg/L | July 2010 Ni-t µg/L |
|------------------------|--------------|--------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|----------------------------|----------------------------|---------------------------|---------------------------|
| Background | CC01F | | | <2 | <2.0 | <2.0 | | | | | <4.0 | <4.0 |
| Mogul Mine Adit | CC02D | 12 | 13.3 | 14 | 13.7 | 14.5 | 14.5 | 14.2 | 12.9 | 11.9 | 12.2 | 12.4 |
| Red and Bonita Adit | CC03C | | | | | | | | | | | |
| American Tunnel | CC19 | 66 | 61.7 | 66 | 70.4 | 69.1 | 69.7 | 67.7 | 60.8 | 66.4 | 63.5 | 66.4 |
| 7-Level Adit | CC06 | 90 | 60.8 | 65 | 59.1 | 55.5 | | 38 | 37.1 | 35 | 95.1 | 57.6 |
| Red and Bonita Culvert | CC03D | 52 | 44.1 | 50 | 52.5 | 53.8 | 57.1 | 56.9 | 59.1 | 56.5 | 55.1 | 52.3 |
| | CC18 | | | | | | | | | | | |

Nickel

| Sept 2010 Ni-t µg/L | Nov 2010 Ni-t µg/L | March 2011 Ni-t µg/L | June 2011 Ni-t µg/L | July 2011 Ni-t µg/L | Aug 2011 Ni-t µg/L | Sept 2011 Ni-t µg/L | Oct 2011 Ni-t µg/L | May 2009 Ni-d ug/L | June 2009 Ni-d µg/L | July 2009 Ni-d µg/L | Aug 2009 Ni-d µg/L | Sept 2009 Ni-d µg/L |
|---------------------------|--------------------------|----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------------|---------------------------|
| <0.7 | <0.7 | | | <4.0 | <4.0 | <4.0 | <4.0 | | | <2.00 | <2.0 | <2.0 |
| 12.8 | 13.7 | | 11.2 | 12 | 12.2 | 13 | 12 | 11.8 | 11 | 13.2 | 13.5 | 15.1 |
| 54.1 | 56.4 | | | 51.5 | 51.5 | 51.4 | 52.2 | | | | | |
| 64.1 | 69.6 | 68 | 62.7 | 67.4 | 65.7 | 64.3 | 63.1 | 64.1 | 61.5 | 64.6 | 63.2 | 69 |
| 52.6 | 46.7 | | 94.1 | 85.8 | 68.5 | 60 | 51.9 | 91.1 | 57.6 | 63.8 | 59.9 | 55.6 |
| 53.2 | 56.9 | 55.4 | 51.3 | 50.6 | 48.9 | | | 51.9 | 47.7 | 47.9 | 50.4 | 55.5 |

Nickel

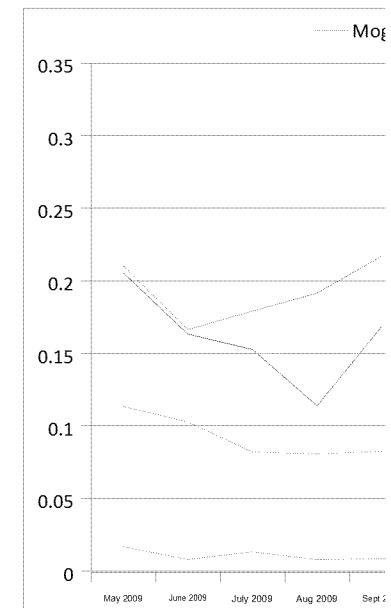
| Nov 2009 Ni-d µg/L | Feb 2010 Ni-d ug/L | March 2010 Ni-d µg/L | April 2010 Ni-d µg/L | June 2010 Ni-d µg/L | July 2010 Ni-d µg/L | Sept 2010 Ni-d µg/L | Nov 2010 Ni-d µg/L | March 2011 Ni-d µg/L | June 2011 Ni-d µg/L | July 2011 Ni-d µg/L | Aug 2011 Ni-d µg/L | Sept 2011 Ni-d µg/L | Oct 2011 Ni-d µg/L |
|--------------------------|--------------------------|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|--------------------------|----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|
| 14.2 | 14.7 | 13.3 | 12.4 | <4.0 8.8 | <4.0 10.2 | <0.7 14.1 | <0.7 13.1 | | | <4.0 10.8 | <4.0 12.6 | <4.0 12.6 | <4.0 12.5 |
| 60 | 69.7 | 67.2 | 67.8 | 56.7 | 65.2 | 71.5 | 66.8 | 64.4 | 62.6 | 66.5 | 63.2 | 62.8 | 60.9 |
| 36.4 | 38.1 | 37.4 | 94 | | 53.7 | 55.2 | 47.7 | | 93.2 | 86.2 | 68.2 | 59.6 | 49.9 |
| 57.3 | 59.4 | 55.9 | 54.7 | 52 | 49.5 | 56.6 | 57.1 | 56 | 50.9 | 49.2 | 49.5 | | |

Nickel

| May 2009 Flow cfs | June 2009 Flow cfs | July 2009 Flow cfs | Aug 2009 Flow cfs | Sept 2009 Flow cfs | Nov 2009 Flow cfs | Feb 2010 Flow cfs | March 2010 Flow cfs | April 2010 Flow cfs | June 2010 Flow cfs | July 2010 Flow cfs | Sept 2010 Flow cfs | Nov 2010 Flow cfs |
|-------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|-------------------------|---------------------------|---------------------------|--------------------------|--------------------------|--------------------------|-------------------------|
| 0.259 | 0.108 | 0.178 | 1.11 0.109 | 0.200 0.109 | 0.123 | 0.154 | | | 4.61 0.138 | 0.389 0.095 | 0.075 0.109 | 0.102 |
| 0.318 | 0.309 | 0.231 | 0.212 | 0.221 | 0.278 | 0.178 | 0.204 | 0.204 | 0.24 | 0.24 | 0.268 | 0.24 |
| 0.423 | 0.498 | 0.436 | 0.358 | 0.562 | | | | 0.333 | 0.558 | 0.485 | 0.449 | 0.473 |
| 0.749 | 0.699 | 0.664 | 0.676 | 0.749 | | | | 0.403 | 0.488 | 0.517 | 0.541 | 0.46 |

Nickel

| March 2011 Flow cfs | June 2011 Flow cfs | July 2011 Flow cfs | Aug 2011 Flow cfs | Sept 2011 Flow cfs | Oct 2011 Flow cfs | Formula= ug/l * cfs * 0.00539377493629927 | | | | | | | |
|---------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|---|---------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|--------------------------------|--|
| | | | | | | May 2009 Ni Load Lbs/day | June 2009 Ni Load Lbs/day | July 2009 Ni Load Lbs/day | Aug 2009 Ni Load Lbs/day | Sept 2009 Ni Load Lbs/day | Nov 2009 Ni Load Lbs/day | Feb 2010 Ni Load Lbs/day | |
| 3.6 0.212 | 0.384 0.088 | 0.13 0.13 | 0.095 0.095 | 0.11 0.095 | 0.101 0.095 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.0 | |
| 0.212 0.328 0.724 | 0.24 0.298 0.676 | 0.212 0.221 0.7 | 0.221 0.308 0.318 | 0.221 0.318 0.313 | 0.24 0.2 0.2 | 0.11 0.2 0.2 | 0.10 0.2 0.2 | 0.08 0.2 0.2 | 0.08 0.1 0.2 | 0.08 0.2 0.2 | 0.10 0.2 0.50 | 0.1 0.2 0.37 | |
| | | | | | | 0.79 | 0.66 | 0.55 | 0.42 | 0.60 | | | |

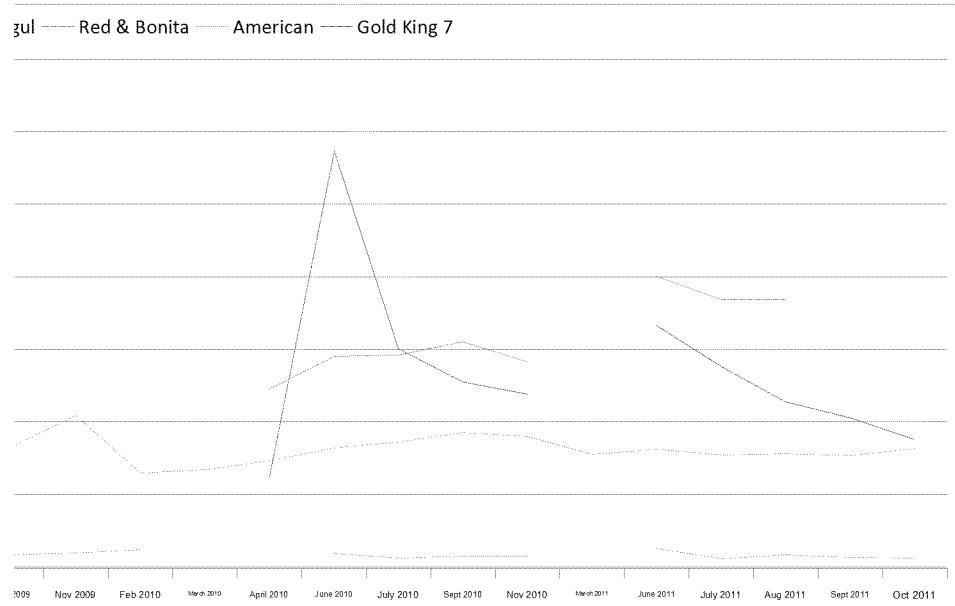


Nickel

| March 2010 Ni Load Lbs/day | April 2010 Ni Load Lbs/day | June 2010 Ni Load Lbs/day | July 2010 Ni Load Lbs/day | Sept 2010 Ni Load Lbs/day | Nov 2010 Ni Load Lbs/day | March 2011 Ni Load Lbs/day | June 2011 Ni Load Lbs/day | July 2011 Ni Load Lbs/day | Aug 2011 Ni Load Lbs/day | Sept 2011 Ni Load Lbs/day | Oct 2011 Ni Load Lbs/day |
|----------------------------------|----------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|----------------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|
|----------------------------------|----------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|----------------------------------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|

| | | | | | | | | | | | |
|-----|-----|------|------|------|------|------|------|------|-------|-------|-------|
| | | 0.0 | 0.01 | 0.01 | 0.01 | | 0.0 | 0.0 | 0.009 | 0.007 | 0.006 |
| | | | | 0.00 | 0.00 | | | | | | |
| 0.1 | 0.1 | 0.1 | 0.09 | 0.09 | 0.09 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| | | 0.1 | 0.3 | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| | | 0.1 | 0.1 | 0.15 | 0.16 | 0.14 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 |
| | | 0.40 | 0.48 | 1.01 | 0.33 | 0.40 | 0.41 | 0.32 | 1.05 | 0.69 | 0.47 |

gul — Red & Bonita ----- American ----- Gold King 7



Zinc

ANIMAS RIVER 2009 - 2011 DATA SUMMARY - Zinc

| Location Name | Station ID | May 2009 | June 2009 | July 2009 | Aug 2009 | Sept 2009 | Nov 2009 | Feb 2010 | March 2010 | April 2010 | June 2010 | July 2010 | Sept 2010 |
|------------------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | Zn-t µg/L |
| Background | CC01F | | | 193 | 185 | 279 | | | | 379 | 180 | 262 | |
| Mogul Mine Adit | CC02D | 28200 | 28000 | 32900 | 34800 | 34200 | 34700 | 29400 | 29200 | 27800 | 24500 | 31300 | 34900 |
| Red and Bonita Adit | CC03C | | | | | | | | | | | | 16600 |
| American Tunnel | CC19 | 19200 | 17900 | 19900 | 19600 | 20500 | 21400 | 19000 | 19700 | 20600 | 18700 | 18300 | 17800 |
| 7-Level Adit | CC06 | 40300 | 23800 | 24800 | 26300 | 23000 | | 15200 | 16000 | 14500 | 44700 | 23500 | 19500 |
| Red and Bonita Culvert | CC03D | 15600 | 13600 | 15500 | 15800 | 16400 | 17400 | 16000 | 16500 | 17500 | 15500 | 14500 | 15300 |
| | CC18 | | | | | | | | | | | | |

Zinc

| Nov 2010 | March 2011 | June 2011 | July 2011 | Aug 2011 | Sept 2011 | Oct 2011 | May 2009 | June 2009 | July 2009 | Aug 2009 | Sept 2009 | Nov 2009 | Feb 2010 | March 2010 |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Zn-t µg/L | Zn-d ug/L |
| 661 | | | 238 | 179 | 188 | 505 | | | 175 | 179 | 259 | | | |
| 34500 | | 25300 | 30500 | 33000 | 32600 | 33200 | 26400 | 25100 | 31600 | 33600 | 34700 | 32200 | 31200 | 28500 |
| 15200 | | | 14800 | 13400 | 14600 | 16100 | | | | | | | | |
| 21000 | 20500 | 19100 | 19700 | 19000 | 18500 | 20800 | 19500 | 17800 | 20000 | 19500 | 20100 | 17400 | 19900 | 20600 |
| 20000 | | 40200 | 33400 | 27500 | 24600 | 24400 | 40200 | 21900 | 24000 | 24800 | 22400 | | 15500 | 15600 |
| 16600 | 15500 | 14800 | 14500 | 13400 | | | 14300 | 13600 | 15000 | 15000 | 16100 | 16400 | 16900 | 15500 |

Zinc

| April 2010 Zn-d µg/L | June 2010 Zn-d µg/L | July 2010 Zn-d µg/L | Sept 2010 Zn-d µg/L | Nov 2010 Zn-d µg/L | March 2011 Zn-d µg/L | June 2011 Zn-d µg/L | July 2011 Zn-d µg/L | Aug 2011 Zn-d µg/L | Sept 2011 Zn-d µg/L | Oct 2011 Zn-d µg/L | May 2009 Flow cfs | June 2009 Flow cfs | July 2009 Flow cfs | Aug 2009 Flow cfs |
|---|---------------------------|---------------------------|---------------------------|--------------------------|----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|-------------------------|--------------------------|--------------------------|-------------------------|
| 25800 370 22900 | 179 29800 | 276 36700 | 604 37800 | | | 233 25600 | 177 29800 | 196 32800 | 492 32900 | | 0.259 | 0.108 | 1.11 0.178 | 0.101 0.109 |
| 18400 17600 13000 39300 14200 14900 | 19700 22500 | 20400 21700 | 21400 20700 | 18500 41900 | 18900 32900 | 19900 28600 | 19500 18200 | 18200 23900 | 19300 21100 | | 0.318 0.423 | 0.309 0.498 | 0.231 0.436 | 0.212 0.358 |
| | 14800 | 16500 | 17200 | 15500 | 14600 | 13600 | 14200 | | | | 0.749 | 0.699 | 0.664 | 0.676 |

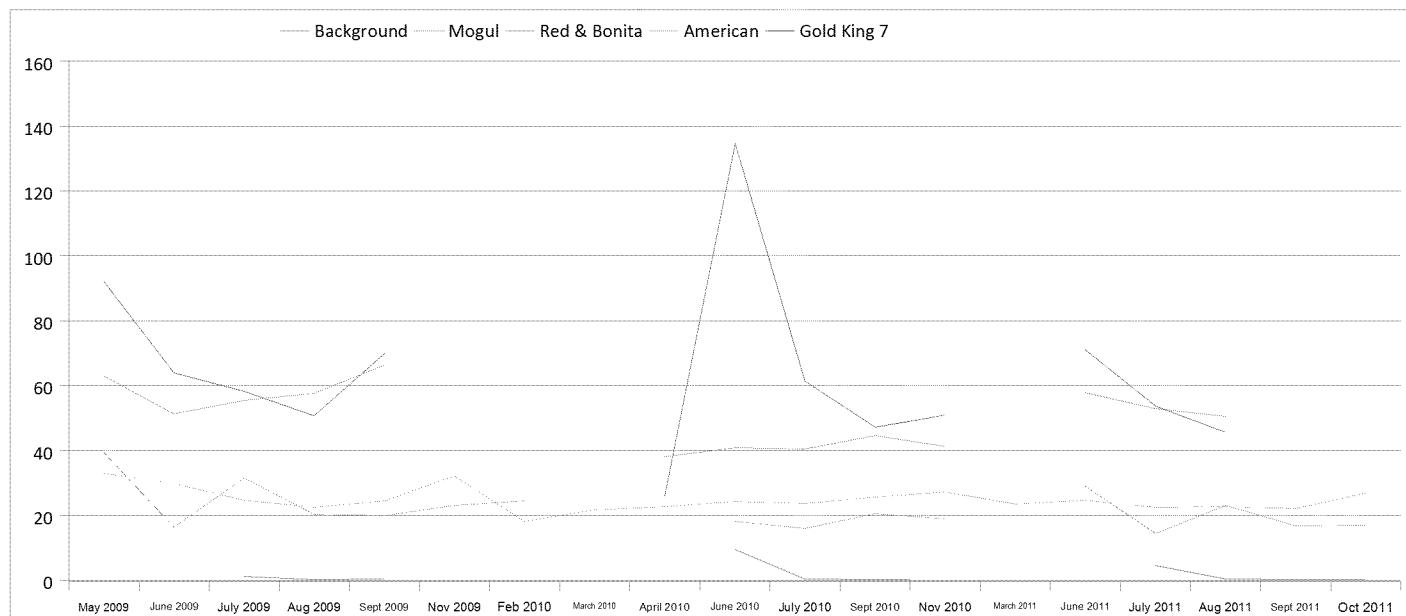
Zinc

| Sept 2009 Flow cfs | Nov 2009 Flow cfs | Feb 2010 Flow cfs | March 2010 Flow cfs | April 2010 Flow cfs | June 2010 Flow cfs | July 2010 Flow cfs | Sept 2010 Flow cfs | Nov 2010 Flow cfs | March 2011 Flow cfs | June 2011 Flow cfs | July 2011 Flow cfs | Aug 2011 Flow cfs | Sept 2011 Flow cfs | Oct 2011 Flow cfs | |
|--------------------------|-------------------------|-------------------------|---------------------------|---------------------------|--------------------------|--------------------------|--------------------------|-------------------------|---------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|-------|
| 0.200 | | | | | 4.61 | 0.389 | 0.075 | | | | 3.6 | 0.384 | 0.11 | 0.101 | |
| 0.109 | 0.123 | 0.154 | | | 0.138 | 0.095 | 0.109 | 0.102 | | | 0.212 | 0.088 | 0.13 | 0.095 | |
| 0.221 | 0.278 | 0.178 | 0.204 | 0.204 | 0.24 | 0.24 | 0.268 | 0.24 | 0.212 | 0.24 | 0.212 | 0.221 | 0.221 | 0.24 | |
| 0.562 | | | | 0.333 | 0.558 | 0.485 | 0.449 | 0.473 | | | 0.328 | 0.298 | 0.308 | 0.318 | 0.313 |
| 0.749 | | | | 0.403 | 0.488 | 0.517 | 0.541 | 0.46 | | | 0.724 | 0.676 | 0.7 | | |

Zinc

Formula= ug/l * cfs * 0.00539377493629927

| May 2009 | June 2009 | July 2009 | Aug 2009 | Sept 2009 | Nov 2009 | Feb 2010 | March 2010 | April 2010 | June 2010 | July 2010 | Sept 2010 | Nov 2010 | March 2011 | June 2011 | July 2011 |
|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Zn Load Lbs/day |
| | | | | | | | | | | | | | | | |
| 39.33 | 16.31 | 31.57 | 20.38 | 20.03 | 23.00 | 24.4 | | | 9.4 | 0.4 | 0.1 | 0.0 | | | 4.6 |
| | | | | | | | | | 18.2 | 16.0 | 20.5 | 19.0 | | 28.9 | 14.5 |
| 32.93 | 29.83 | 24.74 | 22.45 | 24.48 | 32.08 | 18.2 | 21.7 | 22.7 | 24.2 | 23.7 | 25.7 | 27.2 | 23.4 | 24.7 | 22.5 |
| 91.9 | 63.9 | 58.3 | 50.7 | 69.8 | | | | 26.0 | 134.5 | 61.5 | 47.2 | 51.0 | | 71.1 | 53.7 |
| 63.0 | 51.3 | 55.5 | 57.6 | 66.2 | | | | 38.0 | 40.8 | 40.4 | 44.6 | 41.2 | | 57.8 | 52.9 |
| 450.02 | 226.23 | 179.87 | 151.89 | 213.32 | 178.77 | 117.43 | 133.10 | 176.64 | 317.15 | 114.05 | 139.55 | 135.75 | 99.35 | 378.77 | 225.22 |



Zinc

| Aug 2011 Zn Load Lbs/day | Sept 2011 Zn Load Lbs/day | Oct 2011 Zn Load Lbs/day |
|--|---------------------------------|--------------------------------|
| 0.4 23.1 0.0 22.6 45.7 50.6 158.72 | 0.1 16.7 22.1 26.9 | 0.3 17.0 |

ANIMAS RIVER 2009 - 2011 DATA SUMMARY

| Location Name | Station ID | May 2009 | June 2009 | July 2009 | Aug 2009 |
|------------------------|--------------|--------------|--------------|--------------|--------------|
| | | As-t µg/L | As-t µg/L | As-t µg/L | As-t µg/L |
| Background | CC01F | | | <4.0 | <4.0 |
| Mogul Mine Adit | CC02D | <4.0 | <4.0 | <4.0 | <4.0 |
| Red and Bonita Adit | CC03C | | | | |
| American Tunnel | CC19 | <4.0 | <4.0 | <4.0 | <4.0 |
| 7-Level Adit | CC-06 | 116 | 19.8 | 11.3 | 5.8 |
| Red and Bonita Culvert | CC03D | <4.0 | <4.0 | <4.0 | <4.0 |

| Sept 2009 As-t µg/L | Nov 2009 As-t µg/L | Feb 2010 As-t µg/L | March 2010 As-t µg/L | April 2010 As-t µg/L | June 2010 As-t µg/L | July 2010 As-t µg/L | Sept 2010 As-t µg/L |
|---------------------------|--------------------------|--------------------------|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|
| <4.0 | | | | | <4.0 | <4.0 | <1.0 |
| <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <1.0 |
| | | | | | | | <1.0 |
| <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <1.0 |
| <4.0 | | <4.0 | <4.0 | <4.0 | 144 | 10.8 | <1.0 |
| <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <1.0 |

| Nov 2010 | March 2011 | June 2011 | July 2011 | Aug 2011 | Sept 2011 | Oct 2011 |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| As-t µg/L |
| <1.0 | | | <4.0 | <4.0 | | |
| <1.0 | | <4.0 | <4.0 | <4.0 | | |
| <1.0 | | | <4.0 | <4.0 | | |
| <1.0 | <4.0 | <4.0 | <4.0 | <4.0 | | |
| <1.0 | | | 153 | 52.6 | | 12.6 |
| <1.0 | <4.0 | <4.0 | <4.0 | <4.0 | | |

| May 2009 As-d ug/L | June 2009 As-d μg/L | July 2009 As-d μg/L | Aug 2009 As-d μg/L | Sept 2009 As-d μg/L | Nov 2009 As-d μg/L | Feb 2010 As-d ug/L | March 2010 As-d μg/L |
|--------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|----------------------------|
| <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 |
| 111 | 21.3 | 5.5 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 |
| <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 |

| April 2010 As-d µg/L | June 2010 As-d µg/L | July 2010 As-d µg/L | Sept 2010 As-d µg/L | Nov 2010 As-d µg/L | March 2011 As-d µg/L | June 2011 As-d µg/L | July 2011 As-d µg/L |
|----------------------------|---------------------------|---------------------------|---------------------------|--------------------------|----------------------------|---------------------------|---------------------------|
| <4.0 | <4.0 | <4.0 | <1.0 | <1.0 | | | <4.0 |
| | | <4.0 | <1.0 | <1.0 | | <4.0 | <4.0 |
| | | | <1.0 | <1.0 | | | <4.0 |
| <4.0 | <4.0 | <4.0 | <1.0 | <1.0 | <4.0 | <4.0 | <4.0 |
| <4.0 | 139 | 5.6 | <1.0 | <1.0 | | 160 | 44.1 |
| <4.0 | <4.0 | <4.0 | <1.0 | <1.0 | <4.0 | <4.0 | <4.0 |

| Aug 2011 As-d µg/L | Sept 2011 As-d µg/L | Oct 2011 As-d µg/L | May 2009 Be-t µg/L | June 2009 Be-t µg/L | July 2009 Be-t µg/L | Aug 2009 Be-t µg/L |
|--------------------------|---------------------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------------|
| <4.0 | | | | | <1 | <1.0 |
| <4.0 | | | 4 | 4.4 | 5 | 4.7 |
| <4.0 | | | | | | |
| <4.0 | | | 4 | 3.6 | 4 | 3.7 |
| 8.4 | | | 8 | 7 | 8 | 9.4 |
| <4.0 | | | 7 | 5.8 | 6 | 6.6 |

| Sept 2009 Be-t µg/L | Nov 2009 Be-t µg/L | Feb 2010 Be-t µg/L | March 2010 Be-t µg/L | April 2010 Be-t µg/L | June 2010 Be-t µg/L | July 2010 Be-t µg/L | Sept 2010 Be-t µg/L |
|---------------------------|--------------------------|--------------------------|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|
| <1.0 | | | | | <1.0 | <1.0 | <0.2 |
| 4.7 | 4.5 | 4.2 | 4 | 3.6 | 3.6 | 4.3 | 4.5 |
| | | | | | | | 7.4 |
| 3.9 | 3.9 | 3.8 | 3.5 | 3.7 | 3.7 | 3.7 | 3.3 |
| 8.6 | | 4.1 | 4.1 | 3.6 | 8.8 | 6.8 | 8.1 |
| 7.0 | 7.4 | 7.4 | 7.6 | 7.4 | 7.1 | 7 | 7.1 |

| Nov 2010 | March 2011 | June 2011 | July 2011 | Aug 2011 | Sept 2011 | Oct 2011 |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Be-t µg/L |

| <0.2 | | | <1.0 | <1.0 | | |
|------|--|-----|------|------|-----|--|
| 4.3 | | | 3.5 | 4.3 | 4.4 | |
| 7.5 | | | | 6.6 | 7.1 | |
| 3.6 | | 3.4 | 3.8 | 3.8 | 3.6 | |
| 6.4 | | | 8 | 7.7 | 9.3 | |
| 7.3 | | 7 | 6.8 | 6.5 | 6.3 | |

| May 2009 Be-d ug/L | June 2009 Be-d ug/L | July 2009 Be-d ug/L | Aug 2009 Be-d ug/L | Sept 2009 Be-d ug/L | Nov 2009 Be-d ug/L | Feb 2010 Be-d ug/L | March 2010 Be-d ug/L |
|--------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|----------------------------|
| 3.74 | 4 | <1.00 4.71 | <1.0 4.6 | <1.0 4.7 | 4.4 | 4.2 | 3.9 |
| 3.45 | 3.6 | 3.58 | 3.6 | 3.8 | 3.4 | 3.9 | 3.6 |
| 7.97 | 6.8 | 8.18 | 9.1 | 8.5 | | 3.8 | 3.9 |
| 5.93 | 5.3 | 5.45 | 5.8 | 6.2 | 6.9 | 7.2 | 6.4 |

| April 2010 Be-d µg/L | June 2010 Be-d µg/L | July 2010 Be-d µg/L | Sept 2010 Be-d µg/L | Nov 2010 Be-d µg/L | March 2011 Be-d µg/L | June 2011 Be-d µg/L | July 2011 Be-d µg/L |
|----------------------------|---------------------------|---------------------------|---------------------------|--------------------------|----------------------------|---------------------------|---------------------------|
| | <1.0 | | <1.0 | <0.2 | <0.2 | | <1.0 |
| 3.8 | 3.5 | | 4.2 | 4.7 | 4.3 | | 3.6 |
| | | | | 7.6 | 7.7 | | 4.4 |
| 3.8 | 3.3 | | 3.7 | 3.9 | 3.7 | | 6.6 |
| 3.7 | 8.5 | | 6.8 | 8.1 | 6.7 | 3.8 | 3.8 |
| 6.3 | 6.2 | | 6.1 | 6.9 | 5.9 | 8.1 | 7.7 |
| | | | | | | 6.4 | 5.9 |
| | | | | | | | 5.4 |

| Aug 2011 Be-d µg/L | Sept 2011 Be-d µg/L | Oct 2011 Be-d µg/L | May 2009 Cr-t µg/L | June 2009 Cr-t µg/L | July 2009 Cr-t µg/L | Aug 2009 Cr-t µg/L |
|--------------------------|---------------------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------------|
| <1.0 | | | | | <2 | <2.0 |
| 4.6 | | | <2 | <2.0 | <2 | <2.0 |
| 6.9 | | | | | | |
| 3.9 | | | <2 | <2.0 | <2 | <2.0 |
| 9.9 | | | 14 | 5.5 | 4.0 | 2.4 |
| 5.8 | | | <2 | <2.0 | <2 | <2.0 |

| Sept 2009 Cr-t µg/L | Nov 2009 Cr-t µg/L | Feb 2010 Cr-t µg/L | March 2010 Cr-t µg/L | April 2010 Cr-t µg/L | June 2010 Cr-t µg/L | July 2010 Cr-t µg/L | Sept 2010 Cr-t µg/L |
|---------------------------|--------------------------|--------------------------|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|
| <2.0 | | | | | <5.0 | <5.0 | <0.5 |
| <2.0 | <2.0 | 3.6 | 2.8 | 3.2 | <5.0 | <5.0 | <0.5 |
| | | | | | | | <0.5 |
| <2.0 | <2.0 | 4.8 | 3.3 | 3.2 | <5.0 | <5.0 | <0.5 |
| <2.0 | | 2.8 | 2.5 | <2.0 | 13.8 | <5.0 | <0.5 |
| <2.0 | <2.0 | 3.2 | 3.5 | 2.5 | <5.0 | <5.0 | <0.5 |

| Nov 2010 Cr-t µg/L | March 2011 Cr-t µg/L | June 2011 Cr-t µg/L | July 2011 Cr-t µg/L | Aug 2011 Cr-t µg/L | Sept 2011 Cr-t µg/L | Oct 2011 Cr-t µg/L |
|--------------------------|----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|
| <0.5 | | | <5.0 | <5.0 | | |
| <0.5 | | <5.0 | <5.0 | <5.0 | | |
| <0.5 | | | <5.0 | <5.0 | | |
| <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | | |
| <0.5 | | | 13.5 | 8.2 | <5.0 | |
| <0.5 | <5.0 | <5.0 | <5.0 | <5.0 | | |

| May 2009 Cr-d ug/L | June 2009 Cr-d ug/L | July 2009 Cr-d ug/L | Aug 2009 Cr-d ug/L | Sept 2009 Cr-d ug/L | Nov 2009 Cr-d ug/L | Feb 2010 Cr-d ug/L | March 2010 Cr-d ug/L |
|--------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|----------------------------|
| <2.00 | <2.0 | <2.00 | <2.0 | <2.0 | <2.0 | <2.0 | 3 |
| <2.00 | <2.0 | <2.00 | <2.0 | <2.0 | <2.0 | 2.2 | 3.8 |
| 14.1 | 4.4 | 4.04 | 2.1 | <2.0 | | 2.9 | 3 |
| <2.00 | <2.0 | <2.00 | <2.0 | <2.0 | <2.0 | <2.0 | 3.3 |

| April 2010 | June 2010 | July 2010 | Sept 2010 | Nov 2010 | March 2011 | June 2011 | July 2011 |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Cr-d µg/L |
| <2.0 | <5.0 | <5.0 | <0.5 | <0.5 | | | <5.0 |
| | <5.0 | <5.0 | <0.5 | <0.5 | | <5.0 | <5.0 |
| | | | <0.5 | <0.5 | | | <5.0 |
| <2.0 | <5.0 | <5.0 | <0.5 | <0.5 | <5.0 | <5.0 | <5.0 |
| <2.0 | 16.5 | <5.0 | <0.5 | <0.5 | | 12.6 | 8.3 |
| <2.0 | <5.0 | <5.0 | <0.5 | <0.5 | <5.0 | <5.0 | <5.0 |

| Aug 2011 Cr-d µg/L | Sept 2011 Cr-d µg/L | Oct 2011 Cr-d µg/L | May 2009 Se-t µg/L | June 2009 Se-t µg/L | July 2009 Se-t µg/L | Aug 2009 Se-t µg/L |
|--------------------------|---------------------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------------|
| <5.0 | | | | | <1.0 | <1.0 |
| <5.0 | | | 2.0 | 1.7 | 2.1 | 2.2 |
| <5.0 | | | | | | |
| <5.0 | | | 2.2 | 1.9 | 2.0 | 1.8 |
| <5.0 | | | 8.3 | 4.2 | 4.6 | 3.9 |
| <5.0 | | | 1.7 | 1.3 | 1.4 | 1.5 |

| Sept 2009 Se-t µg/L | Nov 2009 Se-t µg/L | Feb 2010 Se-t µg/L | March 2010 Se-t µg/L | April 2010 Se-t µg/L | June 2010 Se-t µg/L | July 2010 Se-t µg/L | Sept 2010 Se-t µg/L |
|---------------------------|--------------------------|--------------------------|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|
| <1.0 | | | | | <1.0 | <1.0 | <0.2 |
| 2.0 | 1.3 | 1.9 | 1.7 | 1.6 | 1.6 | 1.7 | 1.7 |
| | | | | | | | 1.2 |
| 2.0 | 1.7 | 2 | 1.8 | 1.8 | 2.2 | 2 | 1.9 |
| 3.2 | | 1.8 | 2.1 | 2 | 8.8 | 4.2 | 2.8 |
| 1.3 | 1.1 | 1.7 | 1.8 | 1.1 | 1.8 | 1.7 | 1.4 |

| Nov 2010 | March 2011 | June 2011 | July 2011 | Aug 2011 | Sept 2011 | Oct 2011 |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Se-t µg/L |

| <0.2 | | | <1.0 | <1.0 | | |
|------|-----|-----|------|------|-----|--|
| 1.6 | | | 2 | 1.9 | 2.3 | |
| 1.4 | | | | 1.5 | 1.6 | |
| 2 | 2.1 | | 2.5 | 2.2 | 2.4 | |
| 2.7 | | | 10.4 | 7.7 | 5.9 | |
| 1.3 | | 1.6 | 1.8 | 1.5 | 1.7 | |

| May 2009 Se-d ug/L | June 2009 Se-d ug/L | July 2009 Se-d ug/L | Aug 2009 Se-d ug/L | Sept 2009 Se-d ug/L | Nov 2009 Se-d ug/L | Feb 2010 Se-d ug/L | March 2010 Se-d ug/L |
|--------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|----------------------------|
| 1.7 | 1.4 | <1.0 1.6 | <1.0 2.3 | <1.0 2 | 1.8 | 1.7 | 1.7 |
| 2.2 | 1.9 | 1.8 | 2.5 | 1.6 | 2.5 | 2.2 | 1.9 |
| 8.1 | 3.6 | 3.4 | 4.3 | 2.9 | | 1.9 | 2 |
| 1.5 | 1.3 | 1.1 | 1.3 | 1.5 | 1.6 | 1.6 | 1.5 |

| April 2010 Se-d µg/L | June 2010 Se-d µg/L | July 2010 Se-d µg/L | Sept 2010 Se-d µg/L | Nov 2010 Se-d µg/L | March 2011 Se-d µg/L | June 2011 Se-d µg/L | July 2011 Se-d µg/L |
|----------------------------|---------------------------|---------------------------|---------------------------|--------------------------|----------------------------|---------------------------|---------------------------|
| | <1.0 | | <1.0 | <0.2 | <0.2 | | <1.0 |
| 1.2 | 1.4 | | 1.8 | 1.5 | 2.5 | | 2.1 |
| | | | | 1.2 | 1.7 | | 1.7 |
| 1.7 | 2.3 | | 2.1 | 1.6 | 2.2 | 1.9 | 2.3 |
| 1.7 | 8.2 | | 3.9 | 2.6 | 3 | | 10 |
| 1.2 | 1.6 | | 1.8 | 1.2 | 1.7 | 1.4 | 1.8 |
| | | | | | | | 1.4 |

| Aug 2011 Se-d µg/L | Sept 2011 Se-d µg/L | Oct 2011 Se-d µg/L | May 2009 Ag-t µg/L | June 2009 Ag-t µg/L | July 2009 Ag-t µg/L | Aug 2009 Ag-t µg/L |
|--------------------------|---------------------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------------|
| <1.0 | | | | | <0.5 | <0.5 |
| 2.2 | | | <0.5 | <0.5 | <0.5 | <0.5 |
| 1.5 | | | | | | |
| 2.1 | | | <0.5 | <0.5 | <0.5 | <0.5 |
| 5.5 | | | <1.0 | <0.5 | <0.5 | <0.5 |
| 1.4 | | | <0.5 | <0.5 | <0.5 | <0.5 |

| Sept 2009 Ag-t µg/L | Nov 2009 Ag-t µg/L | Feb 2010 Ag-t µg/L | March 2010 Ag-t µg/L | April 2010 Ag-t µg/L | June 2010 Ag-t µg/L | July 2010 Ag-t µg/L | Sept 2010 Ag-t µg/L |
|---------------------------|--------------------------|--------------------------|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|
| <0.5 | | | | | <0.5 | <0.5 | <0.1 |
| <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.1 |
| | | | | | | | <0.1 |
| <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.1 |
| <0.5 | | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 | <0.1 |
| <0.5 | <0.5 | <0.5 | 0.7 | <0.5 | <0.5 | <0.5 | <0.1 |

| Nov 2010 | March 2011 | June 2011 | July 2011 | Aug 2011 | Sept 2011 | Oct 2011 |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Ag-t µg/L |
| <0.1 | | | <0.5 | <0.5 | | |
| <0.1 | | <0.5 | <0.5 | <0.5 | | |
| <0.1 | | | <0.5 | <0.5 | | |
| <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | | |
| <0.1 | | <2.0 | <0.5 | <0.5 | | |
| <0.1 | <0.5 | <0.5 | <0.5 | <0.5 | | |

| May 2009 Ag-d ug/L | June 2009 Ag-d μg/L | July 2009 Ag-d μg/L | Aug 2009 Ag-d μg/L | Sept 2009 Ag-d μg/L | Nov 2009 Ag-d μg/L | Feb 2010 Ag-d ug/L | March 2010 Ag-d μg/L |
|--------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|----------------------------|
| <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| <1.0 | <1.0 | <0.5 | <0.5 | <0.5 | | <0.5 | <0.5 |
| <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

| April 2010 Ag-d µg/L | June 2010 Ag-d µg/L | July 2010 Ag-d µg/L | Sept 2010 Ag-d µg/L | Nov 2010 Ag-d µg/L | March 2011 Ag-d µg/L | June 2011 Ag-d µg/L | July 2011 Ag-d µg/L |
|----------------------------|---------------------------|---------------------------|---------------------------|--------------------------|----------------------------|---------------------------|---------------------------|
| <0.5 | <0.5 | <0.5 | <0.1 | <0.1 | | | <0.5 |
| | | <0.5 | <0.1 | <0.1 | | <0.5 | <0.5 |
| | | | <0.1 | <0.1 | | | <0.5 |
| <0.5 | <0.5 | <0.5 | <0.1 | <0.1 | <0.5 | <0.5 | <0.5 |
| <0.5 | <1.0 | <0.5 | <0.1 | <0.1 | | <2.0 | <0.5 |
| <0.5 | <0.5 | <0.5 | <0.1 | <0.1 | <0.5 | <0.5 | <0.5 |

Aug 2011 Sept 2011 Oct 2011
Ag-d Ag-d Ag-d
µg/L µg/L µg/L

| |
|------|
| <0.5 |
| <0.5 |
| <0.5 |
| <0.5 |
| <0.5 |
| <0.5 |
